

SUMMARY

The diagnosis and staging of lung cancer often begins with the assessment of a suspect peripheral chest site. Such suspicious peripheral sites may be solitary pulmonary nodules, diffuse masses, or other abnormally appearing regions of interest (ROIs). The state-of-the-art process for assessing such peripheral ROIs involves off-line procedure planning using a three-dimensional (3D) multi-detector computed tomography (MDCT) chest scan followed by bronchoscopy with an ultrathin bronchoscope.

The current practice for planning bronchoscopic procedures requires the physician to scroll through two-dimensional (2D) transverse-plane sections of the MDCT image on a computer console and perform 3D mental reconstruction of the anatomy. Unfortunately, mentally defining routes is an arduous, error-prone process. Even if an accurate route is defined through 3D MDCT analysis, the physician must navigate the bronchoscope — with no direct MDCT-based assistance — through the complex bifurcating airway tree to reach a site. These factors make bronchoscopy of peripheral sites difficult. Recent research has shown that virtual bronchoscopic guidance can enable physicians to reliably perform follow-on ultrathin bronchoscopic procedures. The current manual process for generating peripheral VB guidance data, however, is time-consuming and laborious for the physician.

We present an integrated computer-based system for planning peripheral bronchoscopic procedures. The system takes a 3D MDCT chest image as input and requires seven processing steps: (1) ROI selection; (2) ROI Definition; (3) Airway-Tree Segmentation; (4) Airway Surface Definition; (5) Centerline Analysis; (6) Route Planning; and (7) Airway-Tree Editing. The system performs nearly all operations automatically, with the only interaction required by the physician being step (2), ROI Selection. The system is computationally efficient and fits smoothly within the clinical work flow. Integrated into the system and described in detail in the paper is new surface-definition method, which is vital for effective analysis and planning to peripheral sites.

Results demonstrate the efficacy of the system, the impact of the new surface definition method, the system's applications to the subsequent live guidance of ultrathin bronchoscopy to the periphery. We have tested the system on over 40 human cases to date, with 14 cases having undergone full live guidance of bronchoscopy to the periphery. Results show that the system requires less than 15 minutes to generate planning data.

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30 Package: amsmath 2000/07/18 v2.13 AMS math features  
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39 \eqnshift@=\dimen108  
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7 \symAMSA=\mathgroup4  
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9 LaTeX Font Info: Overwriting math alphabet `mathfrak' in version `bold'  
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14 Try typing <return> to proceed.  
15  
16 If that doesn't work, type X <return> to quit.  
17  
18  
19  
20 ! LaTeX Error: Cannot determine size of graphic in figures/Fig3b20349_3_24_bif1  
21 2_after.ps (no BoundingBox).  
22  
23  
24  
25 See the LaTeX manual or LaTeX Companion for explanation.  
26  
27 Type H <return> for immediate help.  
28 ...  
29  
30  
31 I.98 ...6]{figures/Fig3b20349_3_24_bif12_after.ps}  
32 &  
33  
34 Try typing <return> to proceed.  
35  
36 If that doesn't work, type X <return> to quit.  
37  
38  
39 File: figures/Fig3b20349_3_24_bif12_after.ps Graphic file (type eps)  
40 <figures/Fig3b20349_3_24_bif12_after.ps>  
41  
42  
43  
44 LaTeX Warning: File `figures/Fig3c20349_3_24_bif12_video.ps' not found on input  
45 line 99.  
46  
47  
48  
49  
50 ! LaTeX Error: File `figures/Fig3c20349_3_24_bif12_video.ps' not found.  
51  
52  
53 See the LaTeX manual or LaTeX Companion for explanation.  
54  
55 Type H <return> for immediate help.  
56 ...  
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3  
4 I.99 ...6]{figures/Fig3c20349_3_24_bif12_video.ps}  
5           \\  
6 Try typing <return> to proceed.  
7 If that doesn't work, type X <return> to quit.  
8  
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14 ! LaTeX Error: Cannot determine size of graphic in figures/Fig3c20349_3_24_bif1  
15 2_video.ps (no BoundingBox).  
16  
17  
18 See the LaTeX manual or LaTeX Companion for explanation.  
19 Type H <return> for immediate help.  
20  
21 ...  
22  
23  
24  
25 I.99 ...6]{figures/Fig3c20349_3_24_bif12_video.ps}  
26           \\  
27 Try typing <return> to proceed.  
28 If that doesn't work, type X <return> to quit.  
29  
30  
31  
32 File: figures/Fig3c20349_3_24_bif12_video.ps Graphic file (type eps)  
33 <figures/Fig3c20349_3_24_bif12_video.ps>  
34  
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37 LaTeX Warning: File `figures/Fig4athick_wall_plot_BW.ps' not found on input lin  
38 e 117.  
39  
40  
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44 ! LaTeX Error: File `figures/Fig4athick_wall_plot_BW.ps' not found.  
45  
46  
47 See the LaTeX manual or LaTeX Companion for explanation.  
48 Type H <return> for immediate help.  
49  
50 ...  
51  
52  
53 I.117 ...25mm]{figures/Fig4athick_wall_plot_BW.ps}  
54           & \includegraphics[height=...  
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3 Try typing <return> to proceed.  
4 If that doesn't work, type X <return> to quit.  
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9 ! LaTeX Error: Cannot determine size of graphic in figures/Fig4athick_wall_plot  
10 _BW.ps (no BoundingBox).  
11  
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13 See the LaTeX manual or LaTeX Companion for explanation.  
14 Type H <return> for immediate help.  
15  
16 ...  
17  
18  
19  
20 I.117 ...25mm]{figures/Fig4athick_wall_plot_BW.ps}  
21 & \includegraphics[height=...  
22  
23  
24  
25 Try typing <return> to proceed.  
26 If that doesn't work, type X <return> to quit.  
27  
28  
29 File: figures/Fig4athick_wall_plot_BW.ps Graphic file (type eps)  
30 <figures/Fig4athick_wall_plot_BW.ps>  
31  
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34 LaTeX Warning: File `figures/Fig4bthin_wall_plot_BW.ps' not found on input line  
35 117.  
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41 ! LaTeX Error: File `figures/Fig4bthin_wall_plot_BW.ps' not found.  
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44 See the LaTeX manual or LaTeX Companion for explanation.  
45 Type H <return> for immediate help.  
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47 ...  
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50 I.117 ...=25mm]{figures/Fig4bthin_wall_plot_BW.ps}  
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53 Try typing <return> to proceed.  
54 If that doesn't work, type X <return> to quit.  
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4 ! LaTeX Error: Cannot determine size of graphic in figures/Fig4bthin_wall_plot_
5 BW.ps (no BoundingBox).
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9 See the LaTeX manual or LaTeX Companion for explanation.
10
11 Type H <return> for immediate help.
12
13 ...
14
15
16 I.117 ...=25mm}{figures/Fig4bthin_wall_plot_BW.ps}
17 \\
18
19 Try typing <return> to proceed.
20 If that doesn't work, type X <return> to quit.
21
22
23 File: figures/Fig4bthin_wall_plot_BW.ps Graphic file (type eps)
24 <figures/Fig4bthin_wall_plot_BW.ps>
25
26
27
28 LaTeX Warning: File `figures/Fig5a20349_26_cross_sect_NOHU.ps' not found on inp
29 ut line 139.
30
31
32
33
34 ! LaTeX Error: File `figures/Fig5a20349_26_cross_sect_NOHU.ps' not found.
35
36
37 See the LaTeX manual or LaTeX Companion for explanation.
38 Type H <return> for immediate help.
39
40 ...
41
42
43
44 I.139 ...figures/Fig5a20349_26_cross_sect_NOHU.ps}
45 &
46
47 Try typing <return> to proceed.
48 If that doesn't work, type X <return> to quit.
49
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53 ! LaTeX Error: Cannot determine size of graphic in figures/Fig5a20349_26_cross_
54 sect_NOHU.ps (no BoundingBox).
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3 See the LaTeX manual or LaTeX Companion for explanation.
4 Type H <return> for immediate help.
5
6 ...
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9 I.139 ...figures/Fig5a20349_26_cross_sect_NOHU.ps}
10 &
11
12 Try typing <return> to proceed.
13 If that doesn't work, type X <return> to quit.
14
15
16
17 File: figures/Fig5a20349_26_cross_sect_NOHU.ps Graphic file (type eps)
18 <figures/Fig5a20349_26_cross_sect_NOHU.ps>
19
20
21
22 LaTeX Warning: File `figures/Fig5a20349_29_Scope_View.ps' not found on input li
23 ne 140.
24
25
26
27
28 ! LaTeX Error: File `figures/Fig5a20349_29_Scope_View.ps' not found.
29
30
31 See the LaTeX manual or LaTeX Companion for explanation.
32 Type H <return> for immediate help.
33
34 ...
35
36
37 I.140 ...7mm]{figures/Fig5a20349_29_Scope_View.ps}
38 &
39
40 Try typing <return> to proceed.
41 If that doesn't work, type X <return> to quit.
42
43
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46
47 ! LaTeX Error: Cannot determine size of graphic in figures/Fig5a20349_29_Scope_

48 View.ps (no BoundingBox).
49
50
51 See the LaTeX manual or LaTeX Companion for explanation.
52 Type H <return> for immediate help.
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54 ...
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2  
3 I.140 ...7mm]{figures/Fig5a20349_29_Scope_View.ps}  
4 &  
5 Try typing <return> to proceed.  
6 If that doesn't work, type X <return> to quit.  
7  
8  
9  
10  
11 File: figures/Fig5a20349_29_Scope_View.ps Graphic file (type eps)  
12 <figures/Fig5a20349_29_Scope_View.ps>  
13  
14  
15 LaTeX Warning: File `figures/Fig5b20349_26_cross_sect_new.ps' not found on input  
16 line 141.  
17  
18  
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21  
22 ! LaTeX Error: File `figures/Fig5b20349_26_cross_sect_new.ps' not found.  
23  
24  
25 See the LaTeX manual or LaTeX Companion for explanation.  
26 Type H <return> for immediate help.  
27 ...  
28  
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31 I.141 ...{figures/Fig5b20349_26_cross_sect_new.ps}  
32 &  
33 Try typing <return> to proceed.  
34 If that doesn't work, type X <return> to quit.  
35  
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40  
41 ! LaTeX Error: Cannot determine size of graphic in figures/Fig5b20349_26_cross_  
42 sect_new.ps (no BoundingBox).  
43  
44  
45 See the LaTeX manual or LaTeX Companion for explanation.  
46 Type H <return> for immediate help.  
47 ...  
48  
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51  
52 I.141 ...{figures/Fig5b20349_26_cross_sect_new.ps}  
53 &  
54 Try typing <return> to proceed.  
55 If that doesn't work, type X <return> to quit.  
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4 File: figures/Fig5b20349_26_cross_sect_new.ps Graphic file (type eps)  
5 <figures/Fig5b20349_26_cross_sect_new.ps>  
6  
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8  
9 LaTeX Warning: File `figures/Fig5b20349_26_endo_new_method.ps' not found on inp  
10 ut line 142.  
11  
12  
13  
14  
15 ! LaTeX Error: File `figures/Fig5b20349_26_endo_new_method.ps' not found.  
16  
17  
18 See the LaTeX manual or LaTeX Companion for explanation.  
19 Type H <return> for immediate help.  
20  
21 ...  
22  
23  
24  
25 I.142 ...figures/Fig5b20349_26_endo_new_method.ps}  
26  
27 \\  
28 Try typing <return> to proceed.  
29 If that doesn't work, type X <return> to quit.  
30  
31  
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33  
34 ! LaTeX Error: Cannot determine size of graphic in figures/Fig5b20349_26_endo_n  
35 ew_method.ps (no BoundingBox).  
36  
37  
38  
39 See the LaTeX manual or LaTeX Companion for explanation.  
40 Type H <return> for immediate help.  
41  
42 ...  
43  
44  
45 I.142 ...figures/Fig5b20349_26_endo_new_method.ps}  
46  
47 \\  
48 Try typing <return> to proceed.  
49 If that doesn't work, type X <return> to quit.  
50  
51  
52  
53 File: figures/Fig5b20349_26_endo_new_method.ps Graphic file (type eps)  
54 <figures/Fig5b20349_26_endo_new_method.ps>  
55  
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2  
3 LaTeX Warning: File `figures/Fig5c20349_26_cross_sect_850HU.ps' not found on in  
4 put line 144.  
5  
6  
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8  
9 ! LaTeX Error: File `figures/Fig5c20349_26_cross_sect_850HU.ps' not found.  
10  
11  
12 See the LaTeX manual or LaTeX Companion for explanation.  
13  
14 Type H <return> for immediate help.  
15  
16 ...  
17  
18  
19 I.144 ...igures/Fig5c20349_26_cross_sect_850HU.ps}  
20 &  
21  
22 Try typing <return> to proceed.  
23 If that doesn't work, type X <return> to quit.  
24  
25  
26  
27  
28 ! LaTeX Error: Cannot determine size of graphic in figures/Fig5c20349_26_cross_  
29 sect_850HU.ps (no BoundingBox).  
30  
31  
32 See the LaTeX manual or LaTeX Companion for explanation.  
33  
34 Type H <return> for immediate help.  
35  
36 ...  
37  
38  
39 I.144 ...igures/Fig5c20349_26_cross_sect_850HU.ps}  
40 &  
41  
42 Try typing <return> to proceed.  
43 If that doesn't work, type X <return> to quit.  
44  
45  
46  
47 File: figures/Fig5c20349_26_cross_sect_850HU.ps Graphic file (type eps)  
48 <figures/Fig5c20349_26_cross_sect_850HU.ps>  
49  
50  
51  
52 LaTeX Warning: File `figures/Fig5c20349_26_endo_850.ps' not found on input line  
53 145.  
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1  
2  
3 ! LaTeX Error: File `figures/Fig5c20349_26_endo_850.ps' not found.  
4  
5  
6 See the LaTeX manual or LaTeX Companion for explanation.  
7  
8 Type H <return> for immediate help.  
9  
10 ...  
11  
12 I.145 ...=37mm]{figures/Fig5c20349_26_endo_850.ps}  
13  
14 &  
15  
16 Try typing <return> to proceed.  
17 If that doesn't work, type X <return> to quit.  
18  
19  
20  
21  
22 ! LaTeX Error: Cannot determine size of graphic in figures/Fig5c20349_26_endo_8  
23 50.ps (no BoundingBox).  
24  
25  
26 See the LaTeX manual or LaTeX Companion for explanation.  
27 Type H <return> for immediate help.  
28  
29 ...  
30  
31  
32  
33 I.145 ...=37mm]{figures/Fig5c20349_26_endo_850.ps}  
34  
35 &  
36 Try typing <return> to proceed.  
37 If that doesn't work, type X <return> to quit.  
38  
39  
40 File: figures/Fig5c20349_26_endo_850.ps Graphic file (type eps)  
41 <figures/Fig5c20349_26_endo_850.ps>  
42  
43  
44 LaTeX Warning: File `figures/Fig5d20349_26_cross_sect_750HU.ps' not found on in  
45 put line 146.  
46  
47  
48  
49  
50  
51  
52 ! LaTeX Error: File `figures/Fig5d20349_26_cross_sect_750HU.ps' not found.  
53  
54  
55 See the LaTeX manual or LaTeX Companion for explanation.  
56 Type H <return> for immediate help.  
57  
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3 ...  
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5  
6 I.146 ...igures/Fig5d20349_26_cross_sect_750HU.ps}  
7 &  
8 Try typing <return> to proceed.  
9 If that doesn't work, type X <return> to quit.  
10  
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12  
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14  
15 ! LaTeX Error: Cannot determine size of graphic in figures/Fig5d20349_26_cross_  
16 sect_750HU.ps (no BoundingBox).  
17  
18  
19 See the LaTeX manual or LaTeX Companion for explanation.  
20 Type H <return> for immediate help.  
21  
22 ...  
23  
24  
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26  
27 I.146 ...igures/Fig5d20349_26_cross_sect_750HU.ps}  
28 &  
29 Try typing <return> to proceed.  
30 If that doesn't work, type X <return> to quit.  
31  
32  
33  
34 File: figures/Fig5d20349_26_cross_sect_750HU.ps Graphic file (type eps)  
35 <figures/Fig5d20349_26_cross_sect_750HU.ps>  
36  
37  
38  
39 LaTeX Warning: File `figures/Fig5d20349_26_endo_750.ps' not found on input line  
40 147.  
41  
42  
43  
44  
45 ! LaTeX Error: File `figures/Fig5d20349_26_endo_750.ps' not found.  
46  
47  
48 See the LaTeX manual or LaTeX Companion for explanation.  
49 Type H <return> for immediate help.  
50  
51 ...  
52  
53  
54  
55 I.147 ...=37mm]{figures/Fig5d20349_26_endo_750.ps}  
56 \\  
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3 Try typing <return> to proceed.  
4  
5 If that doesn't work, type X <return> to quit.  
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8  
9 ! LaTeX Error: Cannot determine size of graphic in figures/Fig5d20349_26_endo_7  
10 50.ps (no BoundingBox).  
11  
12  
13 See the LaTeX manual or LaTeX Companion for explanation.  
14 Type H <return> for immediate help.  
15  
16 ...  
17  
18  
19  
20 I.147 ...=37mm]{figures/Fig5d20349_26_endo_750.ps}  
21  
22 \\\  
23 Try typing <return> to proceed.  
24  
25 If that doesn't work, type X <return> to quit.  
26  
27  
28 File: figures/Fig5d20349_26_endo_750.ps Graphic file (type eps)  
29 <figures/Fig5d20349_26_endo_750.ps>  
30  
31  
32 LaTeX Warning: File `figures/Fig5e20349_26_cross_sect_650HU.ps' not found on in  
33 put line 149.  
34  
35  
36  
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38  
39 ! LaTeX Error: File `figures/Fig5e20349_26_cross_sect_650HU.ps' not found.  
40  
41  
42 See the LaTeX manual or LaTeX Companion for explanation.  
43 Type H <return> for immediate help.  
44  
45 ...  
46  
47  
48 I.149 ...igures/Fig5e20349_26_cross_sect_650HU.ps}  
49  
50 &  
51  
52 Try typing <return> to proceed.  
53  
54 If that doesn't work, type X <return> to quit.  
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3 ! LaTeX Error: Cannot determine size of graphic in figures/Fig5e20349_26_cross_
4 sect_650HU.ps (no BoundingBox).
5
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7
8 See the LaTeX manual or LaTeX Companion for explanation.
9 Type H <return> for immediate help.
10
11 ...
12
13
14 I.149 ...figures/Fig5e20349_26_cross_sect_650HU.ps}
15 &
16
17 Try typing <return> to proceed.
18
19 If that doesn't work, type X <return> to quit.
20
21
22 File: figures/Fig5e20349_26_cross_sect_650HU.ps Graphic file (type eps)
23 <figures/Fig5e20349_26_cross_sect_650HU.ps>
24
25
26 LaTeX Warning: File `figures/Fig5e20349_26_endo_650.ps' not found on input line
27 150.
28
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33 ! LaTeX Error: File `figures/Fig5e20349_26_endo_650.ps' not found.
34
35
36 See the LaTeX manual or LaTeX Companion for explanation.
37 Type H <return> for immediate help.
38
39 ...
40
41
42 I.150 ...=37mm]{figures/Fig5e20349_26_endo_650.ps}
43 &
44
45 Try typing <return> to proceed.
46
47 If that doesn't work, type X <return> to quit.
48
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52 ! LaTeX Error: Cannot determine size of graphic in figures/Fig5e20349_26_endo_6
53 50.ps (no BoundingBox).
54
55
56 See the LaTeX manual or LaTeX Companion for explanation.
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3 Type H <return> for immediate help.
4
5 ...
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7
8 I.150 ...=37mm]{figures/Fig5e20349_26_endo_650.ps}
9 &
10 Try typing <return> to proceed.
11 If that doesn't work, type X <return> to quit.
12
13
14
15 File: figures/Fig5e20349_26_endo_650.ps Graphic file (type eps)
16 <figures/Fig5e20349_26_endo_650.ps>
17
18
19
20 LaTeX Warning: File `figures/Fig5f20349_26_cross_sect_600HU.ps' not found on in
21 put line 151.
22
23
24
25
26 ! LaTeX Error: File `figures/Fig5f20349_26_cross_sect_600HU.ps' not found.
27
28
29 See the LaTeX manual or LaTeX Companion for explanation.
30 Type H <return> for immediate help.
31
32 ...
33
34
35
36 I.151 ...igures/Fig5f20349_26_cross_sect_600HU.ps}
37 &
38 Try typing <return> to proceed.
39 If that doesn't work, type X <return> to quit.
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44
45 ! LaTeX Error: Cannot determine size of graphic in figures/Fig5f20349_26_cross_
46 sect_600HU.ps (no BoundingBox).
47
48
49 See the LaTeX manual or LaTeX Companion for explanation.
50 Type H <return> for immediate help.
51
52 ...
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56 I.151 ...igures/Fig5f20349_26_cross_sect_600HU.ps}
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&

Try typing <return> to proceed.

If that doesn't work, type X <return> to quit.

File: figures/Fig5f20349_26_cross_sect_600HU.ps Graphic file (type eps)
<figures/Fig5f20349_26_cross_sect_600HU.ps>

LaTeX Warning: File `figures/Fig5f20349_26_endo_600.ps' not found on input line
152.

! LaTeX Error: File `figures/Fig5f20349_26_endo_600.ps' not found.

See the LaTeX manual or LaTeX Companion for explanation.
Type H <return> for immediate help.

...

I.152 ...=37mm]{figures/Fig5f20349_26_endo_600.ps}
\\

Try typing <return> to proceed.

If that doesn't work, type X <return> to quit.

! LaTeX Error: Cannot determine size of graphic in figures/Fig5f20349_26_endo_6
00.ps (no BoundingBox).

See the LaTeX manual or LaTeX Companion for explanation.
Type H <return> for immediate help.

...

I.152 ...=37mm]{figures/Fig5f20349_26_endo_600.ps}
\\

Try typing <return> to proceed.

If that doesn't work, type X <return> to quit.

1
2
3 File: figures/Fig5f20349_26_endo_600.ps Graphic file (type eps)
4 <figures/Fig5f20349_26_endo_600.ps>
5
6
7 LaTeX Warning: File `figures/Fig6a20347_7_Raw_Image.ps' not found on input line
8 176.
9
10
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12
13
14 ! LaTeX Error: File `figures/Fig6a20347_7_Raw_Image.ps' not found.
15
16
17 See the LaTeX manual or LaTeX Companion for explanation.
18 Type H <return> for immediate help.
19
20 ...
21
22
23 I.176 ...=50mm]{figures/Fig6a20347_7_Raw_Image.ps}
24 &
25
26 Try typing <return> to proceed.
27 If that doesn't work, type X <return> to quit.
28
29
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31
32
33 ! LaTeX Error: Cannot determine size of graphic in figures/Fig6a20347_7_Raw_Ima
34 ge.ps (no BoundingBox).
35
36
37 See the LaTeX manual or LaTeX Companion for explanation.
38 Type H <return> for immediate help.
39
40 ...
41
42
43
44 I.176 ...=50mm]{figures/Fig6a20347_7_Raw_Image.ps}
45 &
46
47 Try typing <return> to proceed.
48 If that doesn't work, type X <return> to quit.
49
50
51
52 File: figures/Fig6a20347_7_Raw_Image.ps Graphic file (type eps)
53 <figures/Fig6a20347_7_Raw_Image.ps>
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56 LaTeX Warning: File `figures/Fig6billustration_distances.ps' not found on input
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3 line 177.  
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8 ! LaTeX Error: File `figures/Fig6billustration_distances.ps' not found.  
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10 See the LaTeX manual or LaTeX Companion for explanation.  
11 Type H <return> for immediate help.  
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13 ...  
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16  
17 I.177 ...]{figures/Fig6billustration_distances.ps}  
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20 Try typing <return> to proceed.  
21 If that doesn't work, type X <return> to quit.  
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26 ! LaTeX Error: Cannot determine size of graphic in figures/Fig6billustration_di  
27 stances.ps (no BoundingBox).  
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31 See the LaTeX manual or LaTeX Companion for explanation.  
32 Type H <return> for immediate help.  
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37 I.177 ...]{figures/Fig6billustration_distances.ps}  
38 &  
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40 Try typing <return> to proceed.  
41 If that doesn't work, type X <return> to quit.  
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45 File: figures/Fig6billustration_distances.ps Graphic file (type eps)  
46 <figures/Fig6billustration_distances.ps>  
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50 LaTeX Warning: File `figures/Fig6c20347_7_Regular_Dilated_Image.ps' not found o  
51 n input line 178.  
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56 ! LaTeX Error: File `figures/Fig6c20347_7_Regular_Dilated_Image.ps' not found.  
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4 See the LaTeX manual or LaTeX Companion for explanation.  
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6 Type H <return> for immediate help.  
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11 I.178 ...es/Fig6c20347_7-Regular_Dilated_Image.ps}  
12           \\  
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14 Try typing <return> to proceed.  
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16 If that doesn't work, type X <return> to quit.  
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20 ! LaTeX Error: Cannot determine size of graphic in figures/Fig6c20347_7-Regular  
21 _Dilated_Image.ps (no BoundingBox).  
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25 See the LaTeX manual or LaTeX Companion for explanation.  
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27 Type H <return> for immediate help.  
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32 I.178 ...es/Fig6c20347_7-Regular_Dilated_Image.ps}  
33           \\  
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35 Try typing <return> to proceed.  
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37 If that doesn't work, type X <return> to quit.  
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39 File: figures/Fig6c20347_7-Regular_Dilated_Image.ps Graphic file (type eps)  
40 <figures/Fig6c20347_7-Regular_Dilated_Image.ps>  
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42  
43 LaTeX Warning: File `figures/Fig6d20347_7_Topo_Dilated_Image.ps' not found on i  
44 nput line 182.  
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50 ! LaTeX Error: File `figures/Fig6d20347_7_Topo_Dilated_Image.ps' not found.  
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53 See the LaTeX manual or LaTeX Companion for explanation.  
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55 Type H <return> for immediate help.  
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5 I.182 ...gures/Fig6d20347_7_Topo_Dilated_Image.ps}  
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7 Try typing <return> to proceed.  
8 If that doesn't work, type X <return> to quit.  
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14 ! LaTeX Error: Cannot determine size of graphic in figures/Fig6d20347_7_Topo_Di  
15 lated_Image.ps (no BoundingBox).  
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18 See the LaTeX manual or LaTeX Companion for explanation.  
19 Type H <return> for immediate help.  
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25 I.182 ...gures/Fig6d20347_7_Topo_Dilated_Image.ps}  
26 &  
27 Try typing <return> to proceed.  
28 If that doesn't work, type X <return> to quit.  
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32 File: figures/Fig6d20347_7_Topo_Dilated_Image.ps Graphic file (type eps)  
33 <figures/Fig6d20347_7_Topo_Dilated_Image.ps>  
34  
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37 LaTeX Warning: File `figures/Fig6e20347_7_Topo_Dilated_Like_Image.ps' not found  
38 on input line 183.  
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44 ! LaTeX Error: File `figures/Fig6e20347_7_Topo_Dilated_Like_Image.ps' not found  
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48 See the LaTeX manual or LaTeX Companion for explanation.  
49 Type H <return> for immediate help.  
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10 lated_Like_Image.ps (no BoundingBox).  
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20 I.183 .../Fig6e20347_7_Topo_Dilated_Like_Image.ps}  
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24 If that doesn't work, type X <return> to quit.  
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28 File: figures/Fig6e20347_7_Topo_Dilated_Like_Image.ps Graphic file (type eps)  
29 <figures/Fig6e20347_7_Topo_Dilated_Like_Image.ps>  
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32 LaTeX Warning: File `figures/Fig7BlueArrowCloseUp.ps' not found on input line 2  
33 05.  
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39 ! LaTeX Error: File `figures/Fig7BlueArrowCloseUp.ps' not found.  
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42 See the LaTeX manual or LaTeX Companion for explanation.  
43 Type H <return> for immediate help.  
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48 I.205 ...ale=.95]{figures/Fig7BlueArrowCloseUp.ps}  
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51 Try typing <return> to proceed.  
52 If that doesn't work, type X <return> to quit.  
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3 ! LaTeX Error: Cannot determine size of graphic in figures/Fig7BlueArrowCloseUp
4 .ps (no BoundingBox).
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7 See the LaTeX manual or LaTeX Companion for explanation.
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9 Type H <return> for immediate help.
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14 I.205 ...ale=.95]{figures/Fig7BlueArrowCloseUp.ps}
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18 Try typing <return> to proceed.
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20 If that doesn't work, type X <return> to quit.
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22 File: figures/Fig7BlueArrowCloseUp.ps Graphic file (type eps)
23 <figures/Fig7BlueArrowCloseUp.ps>
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26 LaTeX Warning: File `figures/Fig8aglobalView20349-3-28-greenROI.ps' not found o
27 n input line 226.
28

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32 ! LaTeX Error: File `figures/Fig8aglobalView20349-3-28-greenROI.ps' not found.
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35 See the LaTeX manual or LaTeX Companion for explanation.
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37 Type H <return> for immediate help.
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41 I.226 }
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45 Try typing <return> to proceed.
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47 If that doesn't work, type X <return> to quit.
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51 ! LaTeX Error: Cannot determine size of graphic in figures/Fig8aglobalView20349
52 -3-28-greenROI.ps (no BoundingBox).
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55 See the LaTeX manual or LaTeX Companion for explanation.
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3 Type H <return> for immediate help.  
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7 I.226 }  
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10 Try typing <return> to proceed.  
11 If that doesn't work, type X <return> to quit.  
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15 File: figures/Fig8aglobalView20349-3-28-greenROI.ps Graphic file (type eps)  
16 <figures/Fig8aglobalView20349-3-28-greenROI.ps>  
17 Overfull \vbox (202.81903pt too high) detected at line 226  
18  
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25 LaTeX Warning: File `figures/Fig8bdarkG1.ps' not found on input line 227.  
26  
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30 ! LaTeX Error: File `figures/Fig8bdarkG1.ps' not found.  
31  
32 See the LaTeX manual or LaTeX Companion for explanation.  
33 Type H <return> for immediate help.  
34 ...  
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39 I.227 ...hics[height=41mm]{figures/Fig8bdarkG1.ps}  
40 &  
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42 Try typing <return> to proceed.  
43 If that doesn't work, type X <return> to quit.  
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48 ! LaTeX Error: Cannot determine size of graphic in figures/Fig8bdarkG1.ps (no B  
49 oundingBox).  
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52 See the LaTeX manual or LaTeX Companion for explanation.  
53 Type H <return> for immediate help.  
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6 Try typing <return> to proceed.  
7 If that doesn't work, type X <return> to quit.  
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12 File: figures/Fig8bdarkG1.ps Graphic file (type eps)  
13 <figures/Fig8bdarkG1.ps>  
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16  
17 LaTeX Warning: File `figures/Fig8bdarkG1_VB.ps' not found on input line 228.  
18  
19  
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21  
22 ! LaTeX Error: File `figures/Fig8bdarkG1_VB.ps' not found.  
23  
24 See the LaTeX manual or LaTeX Companion for explanation.  
25 Type H <return> for immediate help.  
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31 I.228 ...s[height=41mm]{figures/Fig8bdarkG1_VB.ps}  
32 &\  
33 Try typing <return> to proceed.  
34 If that doesn't work, type X <return> to quit.  
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41 ! LaTeX Error: Cannot determine size of graphic in figures/Fig8bdarkG1_VB.ps (n  
42 o BoundingBox).  
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44 See the LaTeX manual or LaTeX Companion for explanation.  
45 Type H <return> for immediate help.  
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52 I.228 ...s[height=41mm]{figures/Fig8bdarkG1_VB.ps}  
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54 Try typing <return> to proceed.  
55 If that doesn't work, type X <return> to quit.  
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4 File: figures/Fig8bdarkG1_VB.ps Graphic file (type eps)
5 <figures/Fig8bdarkG1_VB.ps>
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9 LaTeX Warning: File `figures/Fig8cdarkG2.ps' not found on input line 231.
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14 ! LaTeX Error: File `figures/Fig8cdarkG2.ps' not found.
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17 See the LaTeX manual or LaTeX Companion for explanation.
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19 Type H <return> for immediate help.
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21 ...
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23 I.231 ...hics[height=41mm]{figures/Fig8cdarkG2.ps}
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26 Try typing <return> to proceed.
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28 If that doesn't work, type X <return> to quit.
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33 ! LaTeX Error: Cannot determine size of graphic in figures/Fig8cdarkG2.ps (no B
34 oundingBox).
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37 See the LaTeX manual or LaTeX Companion for explanation.
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39 Type H <return> for immediate help.
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44 I.231 ...hics[height=41mm]{figures/Fig8cdarkG2.ps}
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47 Try typing <return> to proceed.
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49 If that doesn't work, type X <return> to quit.
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52 File: figures/Fig8cdarkG2.ps Graphic file (type eps)
53 <figures/Fig8cdarkG2.ps>
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56 LaTeX Warning: File `figures/Fig8cdarkG2_VB.ps' not found on input line 232.
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6 ! LaTeX Error: File `figures/Fig8cdarkG2_VB.ps' not found.  
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9 See the LaTeX manual or LaTeX Companion for explanation.  
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11 Type H <return> for immediate help.  
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16 I.232 ...s[height=41mm]{figures/Fig8cdarkG2_VB.ps}  
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18 Try typing <return> to proceed.  
19 If that doesn't work, type X <return> to quit.  
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25 ! LaTeX Error: Cannot determine size of graphic in figures/Fig8cdarkG2_VB.ps (n  
26 o BoundingBox).  
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29 See the LaTeX manual or LaTeX Companion for explanation.  
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31 Type H <return> for immediate help.  
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36 I.232 ...s[height=41mm]{figures/Fig8cdarkG2_VB.ps}  
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38 Try typing <return> to proceed.  
39 If that doesn't work, type X <return> to quit.  
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44 File: figures/Fig8cdarkG2_VB.ps Graphic file (type eps)  
45 <figures/Fig8cdarkG2_VB.ps>  
46 Overfull \hbox (18.42337pt too wide) in paragraph at lines 222--235  
47  
48 []  
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55 LaTeX Warning: File `figures/Fig9adarkG4.ps' not found on input line 252.  
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4 ! LaTeX Error: File `figures/Fig9adarkG4.ps' not found.  
5  
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7 See the LaTeX manual or LaTeX Companion for explanation.  
8 Type H <return> for immediate help.  
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10 ...  
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13  
14 I.252 ...hics[height=41mm]{figures/Fig9adarkG4.ps}  
15 &  
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17 Try typing <return> to proceed.  
18 If that doesn't work, type X <return> to quit.  
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23 ! LaTeX Error: Cannot determine size of graphic in figures/Fig9adarkG4.ps (no B  
24 oundingBox).  
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28 See the LaTeX manual or LaTeX Companion for explanation.  
29 Type H <return> for immediate help.  
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31 ...  
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34 I.252 ...hics[height=41mm]{figures/Fig9adarkG4.ps}  
35 &  
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37 Try typing <return> to proceed.  
38 If that doesn't work, type X <return> to quit.  
39  
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42 File: figures/Fig9adarkG4.ps Graphic file (type eps)  
43 <figures/Fig9adarkG4.ps>  
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46  
47 LaTeX Warning: File `figures/Fig9adarkG4_VB.ps' not found on input line 253.  
48  
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52 ! LaTeX Error: File `figures/Fig9adarkG4_VB.ps' not found.  
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55 See the LaTeX manual or LaTeX Companion for explanation.  
56 Type H <return> for immediate help.  
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6 I.253 ...s[height=41mm]{figures/Fig9adarkG4_VB.ps}  
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8 Try typing <return> to proceed.  
9 If that doesn't work, type X <return> to quit.  
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15 ! LaTeX Error: Cannot determine size of graphic in figures/Fig9adarkG4_VB.ps (n  
16 o BoundingBox).  
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20 See the LaTeX manual or LaTeX Companion for explanation.  
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22 Type H <return> for immediate help.  
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27 I.253 ...s[height=41mm]{figures/Fig9adarkG4_VB.ps}  
28 &  
29 Try typing <return> to proceed.  
30 If that doesn't work, type X <return> to quit.  
31  
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34 File: figures/Fig9adarkG4_VB.ps Graphic file (type eps)  
35 <figures/Fig9adarkG4_VB.ps>  
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39 LaTeX Warning: File `figures/Fig9bdarkG5.ps' not found on input line 255.  
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44 ! LaTeX Error: File `figures/Fig9bdarkG5.ps' not found.  
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47 See the LaTeX manual or LaTeX Companion for explanation.  
48 Type H <return> for immediate help.  
49 ...  
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53 I.255 ...hics[height=41mm]{figures/Fig9bdarkG5.ps}  
54 &  
55 Try typing <return> to proceed.  
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3 If that doesn't work, type X <return> to quit.  
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7 ! LaTeX Error: Cannot determine size of graphic in figures/Fig9bdarkG5.ps (no B  
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11 See the LaTeX manual or LaTeX Companion for explanation.  
12 Type H <return> for immediate help.  
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18 I.255 ...hics[height=41mm]{figures/Fig9bdarkG5.ps}  
19 &  
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21 Try typing <return> to proceed.  
22 If that doesn't work, type X <return> to quit.  
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26 File: figures/Fig9bdarkG5.ps Graphic file (type eps)  
27 <figures/Fig9bdarkG5.ps>  
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31 LaTeX Warning: File `figures/Fig9bdarkG5_VB.ps' not found on input line 256.  
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36 ! LaTeX Error: File `figures/Fig9bdarkG5_VB.ps' not found.  
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39 See the LaTeX manual or LaTeX Companion for explanation.  
40 Type H <return> for immediate help.  
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45 I.256 ...s[height=41mm]{figures/Fig9bdarkG5_VB.ps}  
46 &\  
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48 Try typing <return> to proceed.  
49 If that doesn't work, type X <return> to quit.  
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55 ! LaTeX Error: Cannot determine size of graphic in figures/Fig9bdarkG5_VB.ps (n  
56 o BoundingBox).  
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4 See the LaTeX manual or LaTeX Companion for explanation.  
5 Type H <return> for immediate help.  
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8 I.256 ...s[height=41mm]{figures/Fig9bdarkG5_VB.ps}  
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11 Try typing <return> to proceed.  
12 If that doesn't work, type X <return> to quit.  
13  
14 File: figures/Fig9bdarkG5_VB.ps Graphic file (type eps)  
15 <figures/Fig9bdarkG5_VB.ps>  
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18 LaTeX Warning: File `figures/Fig9cdarkG7.ps' not found on input line 259.  
19  
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23 ! LaTeX Error: File `figures/Fig9cdarkG7.ps' not found.  
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28 See the LaTeX manual or LaTeX Companion for explanation.  
29 Type H <return> for immediate help.  
30 ...  
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32 I.259 ...hics[height=41mm]{figures/Fig9cdarkG7.ps}  
33  
34 &  
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36 Try typing <return> to proceed.  
37 If that doesn't work, type X <return> to quit.  
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41 ! LaTeX Error: Cannot determine size of graphic in figures/Fig9cdarkG7.ps (no B  
42 oundingBox).  
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47 See the LaTeX manual or LaTeX Companion for explanation.  
48 Type H <return> for immediate help.  
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3 I.259 ...hics[height=41mm]{figures/Fig9cdarkG7.ps}  
4 &  
5 Try typing <return> to proceed.  
6 If that doesn't work, type X <return> to quit.  
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11 File: figures/Fig9cdarkG7.ps Graphic file (type eps)  
12 <figures/Fig9cdarkG7.ps>  
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15 LaTeX Warning: File `figures/Fig9cdarkG7_VB.ps' not found on input line 260.  
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20 ! LaTeX Error: File `figures/Fig9cdarkG7_VB.ps' not found.  
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23 See the LaTeX manual or LaTeX Companion for explanation.  
24 Type H <return> for immediate help.  
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30 I.260 ...s[height=41mm]{figures/Fig9cdarkG7_VB.ps}  
31 &  
32 Try typing <return> to proceed.  
33 If that doesn't work, type X <return> to quit.  
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39 ! LaTeX Error: Cannot determine size of graphic in figures/Fig9cdarkG7_VB.ps (n  
40 o BoundingBox).  
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43 See the LaTeX manual or LaTeX Companion for explanation.  
44 Type H <return> for immediate help.  
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50 I.260 ...s[height=41mm]{figures/Fig9cdarkG7_VB.ps}  
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53 If that doesn't work, type X <return> to quit.  
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3 File: figures/Fig9cdarkG7_VB.ps Graphic file (type eps)
4 <figures/Fig9cdarkG7_VB.ps>
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7 LaTeX Warning: File `figures/Fig9dddarkG10.ps' not found on input line 262.
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12 ! LaTeX Error: File `figures/Fig9dddarkG10.ps' not found.
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15 See the LaTeX manual or LaTeX Companion for explanation.
16 Type H <return> for immediate help.
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18 ...
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22 I.262 ...ics[height=41mm]{figures/Fig9dddarkG10.ps}
23 &
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25 Try typing <return> to proceed.
26 If that doesn't work, type X <return> to quit.
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31 ! LaTeX Error: Cannot determine size of graphic in figures/Fig9dddarkG10.ps (no
32 BoundingBox).
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35 See the LaTeX manual or LaTeX Companion for explanation.
36 Type H <return> for immediate help.
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42 I.262 ...ics[height=41mm]{figures/Fig9dddarkG10.ps}
43 &
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45 Try typing <return> to proceed.
46 If that doesn't work, type X <return> to quit.
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50 File: figures/Fig9dddarkG10.ps Graphic file (type eps)
51 <figures/Fig9dddarkG10.ps>
52
53
54
55 LaTeX Warning: File `figures/Fig9dddarkG10_VB.ps' not found on input line 263.
56
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1  
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4 ! LaTeX Error: File `figures/Fig9ddarkG10_VB.ps' not found.  
5  
6  
7 See the LaTeX manual or LaTeX Companion for explanation.  
8 Type H <return> for immediate help.  
9  
10 ...  
11  
12  
13  
14 I.263 ...[height=41mm]{figures/Fig9ddarkG10_VB.ps}  
15  
16 \\  
17 Try typing <return> to proceed.  
18 If that doesn't work, type X <return> to quit.  
19  
20  
21  
22  
23 ! LaTeX Error: Cannot determine size of graphic in figures/Fig9ddarkG10_VB.ps (   
24 no BoundingBox).  
25  
26  
27  
28 See the LaTeX manual or LaTeX Companion for explanation.  
29 Type H <return> for immediate help.  
30  
31 ...  
32  
33  
34 I.263 ...[height=41mm]{figures/Fig9ddarkG10_VB.ps}  
35  
36  
37 Try typing <return> to proceed.  
38 If that doesn't work, type X <return> to quit.  
39  
40  
41  
42 File: figures/Fig9ddarkG10_VB.ps Graphic file (type eps)  
43 <figures/Fig9ddarkG10_VB.ps>  
44 Overfull \hbox (8.89455pt too wide) in paragraph at lines 250--266  
45  
46  
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48  
49  
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52  
53 LaTeX Warning: File `figures/Fig10aG7Video.ps' not found on input line 277.  
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3 ! LaTeX Error: File `figures/Fig10aG7Video.ps' not found.  
4  
5  
6 See the LaTeX manual or LaTeX Companion for explanation.  
7  
8 Type H <return> for immediate help.  
9 ...  
10  
11  
12 I.277 ...m, height=55mm]{figures/Fig10aG7Video.ps}  
13 &  
14  
15 Try typing <return> to proceed.  
16 If that doesn't work, type X <return> to quit.  
17  
18  
19  
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21  
22 ! LaTeX Error: Cannot determine size of graphic in figures/Fig10aG7Video.ps (no  
23 BoundingBox).  
24  
25  
26 See the LaTeX manual or LaTeX Companion for explanation.  
27 Type H <return> for immediate help.  
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32  
33 I.277 ...m, height=55mm]{figures/Fig10aG7Video.ps}  
34 &  
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36 Try typing <return> to proceed.  
37 If that doesn't work, type X <return> to quit.  
38  
39  
40 File: figures/Fig10aG7Video.ps Graphic file (type eps)  
41 <figures/Fig10aG7Video.ps>  
42  
43  
44  
45 LaTeX Warning: File `figures/Fig10bg7VB.ps' not found on input line 278.  
46  
47  
48  
49  
50 ! LaTeX Error: File `figures/Fig10bg7VB.ps' not found.  
51  
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53 See the LaTeX manual or LaTeX Companion for explanation.  
54 Type H <return> for immediate help.  
55  
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3  
4 I.278 ...52mm, height=55mm]{figures/Fig10bg7VB.ps}  
5 &  
6 Try typing <return> to proceed.  
7 If that doesn't work, type X <return> to quit.  
8  
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14 ! LaTeX Error: Cannot determine size of graphic in figures/Fig10bg7VB.ps (no Bo  
15 undingBox).  
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18 See the LaTeX manual or LaTeX Companion for explanation.  
19 Type H <return> for immediate help.  
20  
21 ...  
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24  
25 I.278 ...52mm, height=55mm]{figures/Fig10bg7VB.ps}  
26 &  
27 Try typing <return> to proceed.  
28 If that doesn't work, type X <return> to quit.  
29  
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31  
32 File: figures/Fig10bg7VB.ps Graphic file (type eps)  
33 <figures/Fig10bg7VB.ps>  
34  
35  
36  
37 LaTeX Warning: File `figures/Fig10cg7_bad.ps' not found on input line 279.  
38  
39  
40  
41  
42 ! LaTeX Error: File `figures/Fig10cg7_bad.ps' not found.  
43  
44  
45 See the LaTeX manual or LaTeX Companion for explanation.  
46 Type H <return> for immediate help.  
47  
48 ...  
49  
50  
51  
52 I.279 ...mm, height=55mm]{figures/Fig10cg7_bad.ps}  
53 &\\"  
54 Try typing <return> to proceed.  
55 If that doesn't work, type X <return> to quit.  
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1  
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6 ! LaTeX Error: Cannot determine size of graphic in figures/Fig10cg7_bad.ps (no  
7 BoundingBox).  
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9  
10 See the LaTeX manual or LaTeX Companion for explanation.  
11 Type H <return> for immediate help.  
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13 ...  
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15  
16  
17 I.279 ...mm, height=55mm]{figures/Fig10cg7_bad.ps}  
18  
19 \\\  
20 Try typing <return> to proceed.  
21 If that doesn't work, type X <return> to quit.  
22  
23  
24  
25 File: figures/Fig10cg7_bad.ps Graphic file (type eps)  
26 <figures/Fig10cg7_bad.ps>  
27  
28  
29 LaTeX Warning: File `figures/Fig11a20349_24_gen8_video_only.ps' not found on in  
30 put line 292.  
31  
32  
33  
34  
35  
36 ! LaTeX Error: File `figures/Fig11a20349_24_gen8_video_only.ps' not found.  
37  
38  
39 See the LaTeX manual or LaTeX Companion for explanation.  
40 Type H <return> for immediate help.  
41  
42 ...  
43  
44  
45 I.292 ...igures/Fig11a20349_24_gen8_video_only.ps}  
46  
47 &  
48 Try typing <return> to proceed.  
49 If that doesn't work, type X <return> to quit.  
50  
51  
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54  
55 ! LaTeX Error: Cannot determine size of graphic in figures/Fig11a20349_24_gen8_  
56 video_only.ps (no BoundingBox).  
57  
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4 See the LaTeX manual or LaTeX Companion for explanation.  
5  
6 Type H <return> for immediate help.  
7  
8 ...  
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10  
11 I.292 ...igures/Fig11a20349_24_gen8_video_only.ps}  
12 &  
13  
14 Try typing <return> to proceed.  
15  
16 If that doesn't work, type X <return> to quit.  
17  
18  
19 File: figures/Fig11a20349_24_gen8_video_only.ps Graphic file (type eps)  
20 <figures/Fig11a20349_24_gen8_video_only.ps>  
21  
22  
23 LaTeX Warning: File `figures/Fig11b20349_24_gen_8_good_surfs.ps' not found on i  
24 nput line 293.  
25  
26  
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29  
30 ! LaTeX Error: File `figures/Fig11b20349_24_gen_8_good_surfs.ps' not found.  
31  
32  
33 See the LaTeX manual or LaTeX Companion for explanation.  
34 Type H <return> for immediate help.  
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36 ...  
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39 I.293 ...gures/Fig11b20349_24_gen_8_good_surfs.ps}  
40 &  
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42 Try typing <return> to proceed.  
43  
44 If that doesn't work, type X <return> to quit.  
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48 ! LaTeX Error: Cannot determine size of graphic in figures/Fig11b20349_24_gen_8  
49 _good_surfs.ps (no BoundingBox).  
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53 See the LaTeX manual or LaTeX Companion for explanation.  
54 Type H <return> for immediate help.  
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56 ...  
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4 I.293 ...gures/Fig11b20349_24_gen_8_good_surfss.ps}  
5 &  
6 Try typing <return> to proceed.  
7 If that doesn't work, type X <return> to quit.  
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12 File: figures/Fig11b20349_24_gen_8_good_surfss.ps Graphic file (type eps)  
13 <figures/Fig11b20349_24_gen_8_good_surfss.ps>  
14  
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16  
17 LaTeX Warning: File `figures/Fig11c20349_24_gen8_bad_surfss_only.ps' not found o  
18 n input line 294.  
19  
20  
21  
22  
23 ! LaTeX Error: File `figures/Fig11c20349_24_gen8_bad_surfss_only.ps' not found.  
24  
25  
26 See the LaTeX manual or LaTeX Companion for explanation.  
27 Type H <return> for immediate help.  
28  
29 ...  
30  
31  
32  
33 I.294 ...es/Fig11c20349_24_gen8_bad_surfss_only.ps}  
34 &  
35 Try typing <return> to proceed.  
36 If that doesn't work, type X <return> to quit.  
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41  
42 ! LaTeX Error: Cannot determine size of graphic in figures/Fig11c20349_24_gen8_  
43 bad_surfss_only.ps (no BoundingBox).  
44  
45  
46 See the LaTeX manual or LaTeX Companion for explanation.  
47 Type H <return> for immediate help.  
48  
49 ...  
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52  
53 I.294 ...es/Fig11c20349_24_gen8_bad_surfss_only.ps}  
54 &  
55 Try typing <return> to proceed.  
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3 If that doesn't work, type X <return> to quit.
4
5
6 File: figures/Fig11c20349_24_gen8_bad_surfs_only.ps Graphic file (type eps)
7 <figures/Fig11c20349_24_gen8_bad_surfs_only.ps>
8
9
10
11 LaTeX Warning: File `figures/Fig1220349_3_28_screenshot_snagit_resized_cropped.
12 ps' not found on input line 308.
13
14
15
16
17 ! LaTeX Error: File `figures/Fig1220349_3_28_screenshot_snagit_resized_cropped.
18 ps' not found.
19
20
21 See the LaTeX manual or LaTeX Companion for explanation.
22 Type H <return> for immediate help.
23
24 ...
25
26
27
28 I.308 ..._28_screenshot_snagit_resized_cropped.ps}
29 \\
30
31 Try typing <return> to proceed.
32
33 If that doesn't work, type X <return> to quit.
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36
37 ! LaTeX Error: Cannot determine size of graphic in figures/Fig1220349_3_28_scre
38 enshot_snagit_resized_cropped.ps (no BoundingBox).
39
40
41 See the LaTeX manual or LaTeX Companion for explanation.
42 Type H <return> for immediate help.
43
44 ...
45
46
47
48 I.308 ..._28_screenshot_snagit_resized_cropped.ps}
49 \\
50
51 Try typing <return> to proceed.
52
53 If that doesn't work, type X <return> to quit.
54
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56 File: figures/Fig1220349_3_28_screenshot_snagit_resized_cropped.ps Graphic file
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2  
3 (type eps)  
4 <figures/Fig1220349_3_28_screenshot_snagit_resized_cropped.ps>) [23] [24] [25]  
5 [26] [27] [28] [29] (./p6summary.tex) [30]  
6  
7  
8  
9  
10 ] (./cbm2008gibbs_submitted.aux) )  
11 Here is how much of TeX's memory you used:  
12 1727 strings out of 94074  
13 21927 string characters out of 1165320  
14 89899 words of memory out of 1500000  
15 4945 multiletter control sequences out of 10000+50000  
16 13277 words of font info for 48 fonts, out of 1200000 for 2000  
17 645 hyphenation exceptions out of 8191  
18 27i,13n,24p,1562b,470s stack positions out of 5000i,500n,6000p,200000b,5000s  
19  
20  
21  
22  
23  
24  
25  
26 Output written on cbm2008gibbs_submitted.dvi (30 pages, 100964 bytes).  
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