Table 1. Emission line ratios for transitions among the $3d^6$ levels of Fe III at T_e = 7,000 K

Transition	Wavelength, Å	Log N_e 2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
$^3G_4$-$^5D_4$	4,008	1.37−02	1.44−02	1.52−02	1.64−02	1.83−02	2.07−02	2.18−02	1.92−02	1.31−02	7.92−03	5.30−03	4.31−03	3.97−03
$^3G_3$-$^5D_3$	4,046	1.25−03	1.38−03	1.63−03	2.15−03	3.08−03	4.40−03	5.57−03	5.56−03	4.08−03	2.53−03	1.70−03	1.37−03	1.26−03
$^3G_5$-$^5D_4$	4,071	3.46−03	3.55−03	3.58−03	3.55−03	3.47−03	3.35−03	3.15−03	2.73−03	1.99−03	1.28−03	8.96−04	7.43−04	6.90−04
$^3G_4$-$^5D_3$	4,080	4.71−03	4.96−03	5.22−03	5.64−03	6.31−03	7.13−03	7.51−03	6.60−03	4.53−03	2.73−03	1.83−03	1.48−03	1.37−03
$^3G_3$-$^5D_2$	4,097	5.75−04	6.32−04	7.48−04	9.87−04	1.41−03	2.02−03	2.56−03	2.55−03	1.88−03	1.16−03	7.80−04	6.32−04	5.81−04
$^3F_3$-$^5D_4$	4,607	5.17−02	5.19−02	5.38−02	5.84−02	6.71−02	7.98−02	9.24−02	1.00−01	9.98−02	9.17−02	8.24−02	7.70−02	7.49−02
$^3F_4$-$^5D_4$	4,658	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00
$^3F_2$-$^5D_3$	4,667	2.11−02	2.10−02	2.35−02	3.00−02	4.19−02	5.88−02	7.44−02	7.93−02	6.86−02	5.09−02	3.87−02	3.33−02	3.14−02
$^3F_3$-$^5D_3$	4,702	2.77−01	2.78−01	2.88−01	3.13−01	3.60−01	4.28−01	4.96−01	5.37−01	5.35−01	4.92−01	4.42−01	4.13−01	4.02−01
$^3F_2$-$^5D_2$	4,734	7.35−02	7.31−02	8.16−02	1.04−01	1.46−01	2.05−01	2.59−01	2.76−01	2.39−01	1.77−01	1.35−01	1.16−01	1.09−01
$^3F_4$-$^5D_3$	4,755	1.88−01	1.87−01	1.87−01	1.88−01	1.88−01	1.87−01	1.87−01	1.88−01	1.88−01	1.88−01	1.87−01	1.87−01	1.87−01
$^3F_3$-$^5D_2$	4,769	9.57−02	9.62−02	9.96−02	1.08−01	1.24−01	1.48−01	1.71−01	1.86−01	1.85−01	1.70−01	1.53−01	1.43−01	1.39−01
$^3F_2$-$^5D_1$	4,778	3.56−02	3.53−02	3.95−02	5.04−02	7.06−02	9.90−02	1.25−01	1.33−01	1.15−01	8.57−02	6.51−02	5.60−02	5.28−02
$^3H_4$-$^5D_4$	4,881	3.39−01	3.78−01	4.42−01	5.57−01	7.09−01	8.02−01	6.73−01	3.78−01	1.63−01	7.17−02	4.09−02	3.08−02	2.76−02
$^3H_5$-$^5D_4$	4,925	2.91−02	3.01−02	2.65−02	1.82−02	9.39−03	4.00−03	1.57−03	5.90−04	2.23−04	9.64−05	5.53−05	4.21−05	3.78−05
$^3P_0$-$^5D_1$	4,931	1.79−02	1.75−02	2.00−02	2.72−02	4.19−02	6.37−02	8.46−02	1.01−01	1.18−01	1.43−01	1.72−01	1.93−01	2.03−01
$^3H_6$-$^5D_4$	4,986	9.76−01	3.98−01	1.33−01	3.92−02	1.11−02	3.22−03	9.86−04	3.20−04	1.13−04	4.78−05	2.74−05	2.09−05	1.89−05
$^3H_4$-$^5D_3$	4,987	6.63−02	7.38−02	8.64−02	1.09−01	1.38−01	1.57−01	1.31−01	7.39−02	3.18−02	1.40−02	7.98−03	6.02−03	5.39−03
$^3P_1$-$^5D_2$	5,011	1.27−01	1.20−01	1.23−01	1.36−01	1.64−01	2.03−01	2.40−01	2.71−01	3.10−01	3.69−01	4.41−01	4.94−01	5.20−01
$^3H_5$-$^5D_3$	5,033	6.77−03	7.01−03	6.17−03	4.24−03	2.19−03	9.32−04	3.66−04	1.38−04	5.19−05	2.25−05	1.29−05	9.80−06	8.81−06
$^3P_1$-$^5D_0$	5,085	2.19−02	2.07−02	2.11−02	2.34−02	2.81−02	3.49−02	4.12−02	4.66−02	5.33−02	6.34−02	7.56−02	8.48−02	8.92−02
$^3P_2$-$^5D_3$	5,270	6.31−01	5.89−01	5.76−01	5.82−01	5.97−01	6.13−01	6.22−01	6.36−01	6.72−01	7.32−01	8.00−01	8.50−01	8.73−01
$^3P_2$-$^5D_1$	5,412	5.93−02	5.54−02	5.42−02	5.48−02	5.62−02	5.77−02	5.86−02	5.99−02	6.33−02	6.89−02	7.53−02	8.00−02	8.22−02
$^3G_3$-$^3H_4$	2.15μm	7.01−03	7.70−03	9.11−03	1.20−02	1.72−02	2.46−02	3.12−02	3.11−02	2.29−02	1.41−02	9.50−03	7.69−03	7.08−03
$^3G_5$-$^3H_6$	2.22μm	6.76−02	6.94−02	6.99−02	6.93−02	6.78−02	6.55−02	6.15−02	5.33−02	3.89−02	2.51−02	1.75−02	1.45−02	1.35−02
$^3G_4$-$^3H_4$	2.24μm	3.89−02	4.09−02	4.31−02	4.65−02	5.21−02	5.88−02	6.20−02	5.45−02	3.73−02	2.25−02	1.51−02	1.22−02	1.13−02
$^3G_5$-$^3H_5$	2.35μm	4.49−02	4.61−02	4.64−02	4.60−02	4.51−02	4.35−02	4.09−02	3.54−02	2.59−02	1.67−02	1.16−02	9.64−03	8.95−03
$^3G_5$-$^3H_4$	2.45μm	6.21−03	6.37−03	6.41−03	6.35−03	6.22−03	6.01−03	5.65−03	4.89−03	3.57−03	2.30−03	1.61−03	1.33−03	1.24−03
$^3G_4$-$^3F_4$	2.87μm	5.35−03	5.63−03	5.93−03	6.41−03	7.16−03	8.10−03	8.53−03	7.50−03	5.14−03	3.10−03	2.07−03	1.69−03	1.55−03
$^3G_3$-$^3F_3$	2.90μm	2.25−03	2.47−03	2.93−03	3.86−03	5.53−03	7.91−03	1.00−02	9.99−03	7.34−03	4.54−03	3.05−03	2.47−03	2.27−03
$^3G_3$-$^3F_2$	3.04μm	1.34−03	1.48−03	1.75−03	2.30−03	3.30−03	4.72−03	5.98−03	5.96−03	4.38−03	2.71−03	1.82−03	1.47−03	1.36−03
$^3G_5$-$^3F_4$	3.23μm	8.97−03	9.21−03	9.27−03	9.19−03	9.00−03	8.69−03	8.17−03	7.07−03	5.16−03	3.33−03	2.33−03	1.93−03	1.79−03
$^5D_3$-$^5D_4$	22.9μm	5.05+00	4.45+00	4.12+00	3.79+00	3.07+00	1.87+00	8.14−01	2.88−01	9.78−02	3.65−02	1.71−02	1.09−02	8.88−03
$^5D_2$-$^5D_3$	33.0μm	1.35+00	1.18+00	1.09+00	9.97−01	8.13−01	5.11−01	2.29−01	8.26−02	2.83−02	1.06−02	4.96−03	3.16−03	2.58−03
$^3H_5$-$^3H_6$	40.0μm	1.38−02	1.42−02	1.25−02	8.62−03	4.45−03	1.90−03	7.43−04	2.80−04	1.05−04	4.57−05	2.62−05	1.99−05	1.79−05
$^5D_0$-$^5D_1$	105.0μm	3.39−02	2.66−02	1.90−02	1.16−02	6.17−03	2.90−03	1.13−03	3.87−04	1.30−04	4.85−05	2.27−05	1.45−05	1.19−05

Line intensities (in energy units) are given relative to I(4,658 Å) = 1.00. A + or − B implies A × $10^{\pm B}$.

Table 2. Emission line ratios for transitions among the $3d^6$ levels of Fe III at T_e = 10,000K

Transition	Wavelength, Å	Log N_e 2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
$^3G_4$-$^5D_4$	4,008	1.72−02	1.82−02	1.92−02	2.07−02	2.31−02	2.61−02	2.79−02	2.53−02	1.78−02	1.07−02	6.92−03	5.46−03	4.96−03
$^3G_3$-$^5D_3$	4,046	1.60−03	1.76−03	2.07−03	2.72−03	3.88−03	5.58−03	7.19−03	7.40−03	5.59−03	3.45−03	2.24−03	1.76−03	1.60−03
$^3G_5$-$^5D_4$	4,071	4.28−03	4.40−03	4.43−03	4.40−03	4.30−03	4.14−03	3.91−03	3.44−03	2.58−03	1.67−03	1.14−03	9.17−04	8.41−04
$^3G_4$-$^5D_3$	4,080	5.94−03	6.27−03	6.61−03	7.12−03	7.95−03	9.00−03	9.62−03	8.70−03	6.12−03	3.67−03	2.38−03	1.88−03	1.71−03
$^3G_3$-$^5D_2$	4,097	7.35−04	8.10−04	9.53−04	1.25−03	1.78−03	2.56−03	3.30−03	3.40−03	2.57−03	1.59−03	1.03−03	8.11−04	7.35−04
$^3F_3$-$^5D_4$	4,607	5.22−02	5.23−02	5.41−02	5.86−02	6.72−02	8.00−02	9.32−02	1.02−01	1.03−01	9.49−02	8.50−02	7.88−02	7.62−02
$^3F_4$-$^5D_4$	4,658	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00
$^3F_2$-$^5D_3$	4,667	2.25−02	2.22−02	2.44−02	3.06−02	4.25−02	5.96−02	7.61−02	8.28−02	7.35−02	5.50−02	4.10−02	3.47−02	3.23−02
$^3F_3$-$^5D_3$	4,702	2.80−01	2.81−01	2.90−01	3.14−01	3.60−01	4.29−01	5.00−01	5.46−01	5.50−01	5.09−01	4.55−01	4.22−01	4.09−01
$^3F_2$-$^5D_2$	4,734	7.83−02	7.71−02	8.48−02	1.07−01	1.48−01	2.07−01	2.65−01	2.88−01	2.56−01	1.91−01	1.43−01	1.21−01	1.13−01
$^3F_4$-$^5D_3$	4,755	1.88−01	1.88−01	1.87−01	1.87−01	1.87−01	1.88−01	1.88−01	1.88−01	1.87−01	1.88−01	1.87−01	1.88−01	1.87−01
$^3F_3$-$^5D_2$	4,769	9.67−02	9.70−02	1.00−01	1.08−01	1.24−01	1.48−01	1.73−01	1.89−01	1.90−01	1.76−01	1.57−01	1.46−01	1.41−01
$^3F_2$-$^5D_1$	4,778	3.79−02	3.73−02	4.10−02	5.16−02	7.15−02	1.00−01	1.28−01	1.39−01	1.24−01	9.25−02	6.91−02	5.83−02	5.44−02
$^3H_4$-$^5D_4$	4,881	3.83−01	4.22−01	4.84−01	5.95−01	7.46−01	8.50−01	7.33−01	4.24−01	1.81−01	7.65−02	4.12−02	2.99−02	2.63−02
$^3H_5$-$^5D_4$	4,925	2.83−02	2.97−02	2.67−02	1.90−02	1.01−02	4.36−03	1.71−03	6.45−04	2.40−04	1.00−04	5.48−05	4.02−05	3.55−05
$^3P_0$-$^5D_1$	4,931	1.77−02	1.72−02	1.93−02	2.57−02	3.91−02	5.95−02	7.96−02	9.58−02	1.13−01	1.36−01	1.65−01	1.88−01	1.99−01
$^3H_6$-$^5D_4$	4,986	1.04+00	4.38−01	1.49−01	4.42−02	1.24−02	3.57−03	1.08−03	3.49−04	1.21−04	4.90−05	2.67−05	1.97−05	1.75−05
$^3H_4$-$^5D_3$	4,987	7.47−02	8.25−02	9.46−02	1.16−01	1.46−01	1.66−01	1.43−01	8.29−02	3.54−02	1.49−02	8.05−03	5.84−03	5.13−03
$^3P_1$-$^5D_2$	5,011	1.18−01	1.11−01	1.12−01	1.24−01	1.49−01	1.85−01	2.20−01	2.50−01	2.86−01	3.42−01	4.11−01	4.66−01	4.93−01
$^3H_5$-$^5D_3$	5,033	6.60−03	6.91−03	6.23−03	4.43−03	2.36−03	1.02−03	3.99−04	1.50−04	5.59−05	2.34−05	1.28−05	9.37−06	8.28−06
$^3P_1$-$^5D_0$	5,085	2.02−02	1.90−02	1.93−02	2.13−02	2.55−02	3.17−02	3.77−02	4.28−02	4.91−02	5.86−02	7.05−02	7.99−02	8.46−02
$^3P_2$-$^5D_3$	5,270	5.51−01	5.14−01	5.01−01	5.04−01	5.15−01	5.28−01	5.36−01	5.49−01	5.84−01	6.39−01	7.00−01	7.46−01	7.68−01
$^3P_2$-$^5D_1$	5,412	5.18−02	4.84−02	4.71−02	4.74−02	4.85−02	4.97−02	5.05−02	5.17−02	5.49−02	6.01−02	6.59−02	7.02−02	7.22−02
$^3G_3$-$^3H_4$	2.15μm	8.95−03	9.87−03	1.16−02	1.52−02	2.17−02	3.12−02	4.02−02	4.14−02	3.13−02	1.93−02	1.26−02	9.87−03	8.95−03
$^3G_5$-$^3H_6$	2.22μm	8.36−02	8.59−02	8.66−02	8.59−02	8.40−02	8.10−02	7.64−02	6.73−02	5.04−02	3.26−02	2.22−02	1.79−02	1.64−02
$^3G_4$-$^3H_4$	2.24μm	4.90−02	5.17−02	5.45−02	5.87−02	6.56−02	7.43−02	7.94−02	7.18−02	5.05−02	3.03−02	1.97−02	1.55−02	1.41−02
$^3G_5$-$^3H_5$	2.35μm	5.55−02	5.71−02	5.75−02	5.71−02	5.58−02	5.38−02	5.08−02	4.47−02	3.35−02	2.17−02	1.47−02	1.19−02	1.09−02
$^3G_5$-$^3H_4$	2.45μm	7.67−03	7.88−03	7.95−03	7.88−03	7.70−03	7.43−03	7.01−03	6.17−03	4.63−03	2.99−03	2.04−03	1.64−03	1.51−03
$^3G_4$-$^3F_4$	2.87μm	6.74−03	7.12−03	7.50−03	8.08−03	9.03−03	1.02−02	1.09−02	9.89−03	6.95−03	4.17−03	2.71−03	2.13−03	1.94−03
$^3G_3$-$^3F_3$	2.90μm	2.88−03	3.17−03	3.73−03	4.88−03	6.98−03	1.00−02	1.29−02	1.33−02	1.01−02	6.20−03	4.03−03	3.17−03	2.87−03
$^3G_3$-$^3F_2$	3.04μm	1.71−03	1.89−03	2.22−03	2.91−03	4.16−03	5.98−03	7.71−03	7.93−03	6.00−03	3.70−03	2.41−03	1.89−03	1.71−03
$^3G_5$-$^3F_4$	3.23μm	1.11−02	1.14−02	1.15−02	1.14−02	1.11−02	1.07−02	1.01−02	8.93−03	6.69−03	4.33−03	2.94−03	2.38−03	2.18−03
$^5D_3$-$^5D_4$	22.9μm	1.59+00	1.40+00	1.29+00	1.19+00	9.72−01	6.03−01	2.66−01	9.44−02	3.18−02	1.16−02	5.17−03	3.13−03	2.48−03
$^5D_2$-$^5D_3$	33.0μm	4.33−01	3.79−01	3.47−01	3.17−01	2.61−01	1.66−01	7.58−02	2.74−02	9.33−03	3.40−03	1.52−03	9.26−04	7.34−04
$^3H_5$-$^3H_6$	40.0μm	1.34−02	1.41−02	1.27−02	9.01−03	4.79−03	2.06−03	8.11−04	3.05−04	1.14−04	4.75−05	2.59−05	1.90−05	1.68−05
$^5D_0$-$^5D_1$	105.0μm	1.10−02	8.66−03	6.20−03	3.79−03	2.03−03	9.58−04	3.78−04	1.30−04	4.33−05	1.58−05	7.08−06	4.32−06	3.43−06

Line intensities (in energy units) are given relative to I(4,658 Å) = 1.00. A + or − B implies A × $10^{\pm B}$.

Table 3. Emission line ratios for transitions among the $3d^6$ levels of Fe III at T_e = 12,000K

Transition	Wavelength, Å	Log N_e 2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
$^3G_4$-$^5D_4$	4,008	1.89−02	2.00−02	2.11−02	2.27−02	2.53−02	2.86−02	3.08−02	2.82−02	2.02−02	1.21−02	7.74−03	6.01−03	5.41−03
$^3G_3$-$^5D_3$	4,046	1.77−03	1.95−03	2.29−03	2.98−03	4.24−03	6.10−03	7.92−03	8.30−03	6.38−03	3.94−03	2.52−03	1.95−03	1.76−03
$^3G_5$-$^5D_4$	4,071	4.65−03	4.78−03	4.83−03	4.79−03	4.68−03	4.51−03	4.26−03	3.78−03	2.87−03	1.87−03	1.25−03	9.99−04	9.09−04
$^3G_4$-$^5D_3$	4,080	6.51−03	6.89−03	7.27−03	7.82−03	8.71−03	9.87−03	1.06−02	9.73−03	6.96−03	4.18−03	2.67−03	2.07−03	1.86−03
$^3G_3$-$^5D_2$	4,097	8.13−04	8.97−04	1.05−03	1.37−03	1.95−03	2.80−03	3.64−03	3.81−03	2.93−03	1.81−03	1.16−03	8.98−04	8.07−04
$^3F_3$-$^5D_4$	4,607	5.28−02	5.28−02	5.44−02	5.88−02	6.74−02	8.01−02	9.34−02	1.03−01	1.04−01	9.65−02	8.62−02	7.96−02	7.68−02
$^3F_4$-$^5D_4$	4,658	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00
$^3F_2$-$^5D_3$	4,667	2.33−02	2.28−02	2.49−02	3.10−02	4.27−02	5.98−02	7.66−02	8.43−02	7.59−02	5.71−02	4.23−02	3.53−02	3.27−02
$^3F_3$-$^5D_3$	4,702	2.83−01	2.83−01	2.92−01	3.15−01	3.61−01	4.29−01	5.01−01	5.50−01	5.57−01	5.18−01	4.62−01	4.27−01	4.12−01
$^3F_2$-$^5D_2$	4,734	8.11−02	7.95−02	8.67−02	1.08−01	1.49−01	2.08−01	2.67−01	2.93−01	2.64−01	1.99−01	1.47−01	1.23−01	1.14−01
$^3F_4$-$^5D_3$	4,755	1.88−01	1.87−01	1.88−01	1.87−01	1.88−01	1.88−01	1.88−01	1.87−01	1.87−01	1.87−01	1.87−01	1.87−01	1.88−01
$^3F_3$-$^5D_2$	4,769	9.78−02	9.77−02	1.01−01	1.09−01	1.25−01	1.48−01	1.73−01	1.90−01	1.92−01	1.79−01	1.60−01	1.47−01	1.42−01
$^3F_2$-$^5D_1$	4,778	3.92−02	3.84−02	4.19−02	5.21−02	7.19−02	1.01−01	1.29−01	1.42−01	1.28−01	9.61−02	7.12−02	5.94−02	5.51−02
$^3H_4$-$^5D_4$	4,881	4.04−01	4.45−01	5.06−01	6.15−01	7.67−01	8.76−01	7.68−01	4.53−01	1.94−01	8.00−02	4.19−02	2.97−02	2.58−02
$^3H_5$-$^5D_4$	4,925	2.82−02	2.97−02	2.71−02	1.96−02	1.06−02	4.61−03	1.81−03	6.82−04	2.53−04	1.04−04	5.53−05	3.97−05	3.48−05
$^3P_0$-$^5D_1$	4,931	1.77−02	1.71−02	1.90−02	2.51−02	3.79−02	5.76−02	7.74−02	9.34−02	1.10−01	1.33−01	1.61−01	1.85−01	1.97−01
$^3H_6$-$^5D_4$	4,986	1.08+00	4.66−01	1.60−01	4.79−02	1.35−02	3.84−03	1.16−03	3.70−04	1.27−04	5.05−05	2.68−05	1.93−05	1.70−05
$^3H_4$-$^5D_3$	4,987	7.90−02	8.70−02	9.89−02	1.20−01	1.50−01	1.71−01	1.50−01	8.85−02	3.79−02	1.56−02	8.18−03	5.80−03	5.04−03
$^3P_1$-$^5D_2$	5,011	1.14−01	1.07−01	1.08−01	1.19−01	1.43−01	1.77−01	2.11−01	2.41−01	2.77−01	3.30−01	3.98−01	4.54−01	4.83−01
$^3H_5$-$^5D_3$	5,033	6.57−03	6.92−03	6.31−03	4.57−03	2.48−03	1.07−03	4.22−04	1.59−04	5.90−05	2.42−05	1.29−05	9.26−06	8.10−06
$^3P_1$-$^5D_0$	5,085	1.96−02	1.84−02	1.86−02	2.04−02	2.45−02	3.04−02	3.63−02	4.13−02	4.75−02	5.66−02	6.83−02	7.79−02	8.29−02
$^3P_2$-$^5D_3$	5,270	5.24−01	4.89−01	4.75−01	4.77−01	4.88−01	4.98−01	5.06−01	5.18−01	5.52−01	6.05−01	6.64−01	7.08−01	7.30−01
$^3P_2$-$^5D_1$	5,412	4.94−02	4.60−02	4.48−02	4.49−02	4.59−02	4.69−02	4.76−02	4.88−02	5.19−02	5.70−02	6.25−02	6.67−02	6.87−02
$^3G_3$-$^3H_4$	2.15μm	9.91−03	1.09−02	1.28−02	1.67−02	2.38−02	3.41−02	4.43−02	4.64−02	3.57−02	2.21−02	1.41−02	1.09−02	9.83−03
$^3G_5$-$^3H_6$	2.22μm	9.08−02	9.35−02	9.43−02	9.36−02	9.14−02	8.81−02	8.32−02	7.38−02	5.62−02	3.65−02	2.45−02	1.95−02	1.78−02
$^3G_4$-$^3H_4$	2.24μm	5.37−02	5.69−02	6.00−02	6.45−02	7.19−02	8.14−02	8.75−02	8.03−02	5.74−02	3.45−02	2.20−02	1.71−02	1.54−02
$^3G_5$-$^3H_5$	2.35μm	6.03−02	6.21−02	6.27−02	6.21−02	6.07−02	5.85−02	5.53−02	4.90−02	3.73−02	2.42−02	1.63−02	1.30−02	1.18−02
$^3G_5$-$^3H_4$	2.45μm	8.33−03	8.58−03	8.66−03	8.58−03	8.39−03	8.08−03	7.63−03	6.77−03	5.15−03	3.35−03	2.25−03	1.79−03	1.63−03
$^3G_4$-$^3F_4$	2.87μm	7.40−03	7.83−03	8.25−03	8.87−03	9.90−03	1.12−02	1.20−02	1.11−02	7.90−03	4.74−03	3.03−03	2.35−03	2.12−03
$^3G_3$-$^3F_3$	2.90μm	3.18−03	3.51−03	4.11−03	5.36−03	7.63−03	1.10−02	1.42−02	1.49−02	1.15−02	7.08−03	4.54−03	3.51−03	3.16−03
$^3G_3$-$^3F_2$	3.04μm	1.90−03	2.09−03	2.45−03	3.19−03	4.55−03	6.54−03	8.49−03	8.89−03	6.84−03	4.22−03	2.71−03	2.09−03	1.88−03
$^3G_5$-$^3F_4$	3.23μm	1.20−02	1.24−02	1.25−02	1.24−02	1.21−02	1.17−02	1.10−02	9.80−03	7.45−03	4.84−03	3.25−03	2.59−03	2.36−03
$^5D_3$-$^5D_4$	22.9μm	1.03+00	9.03−01	8.31−01	7.66−01	6.30−01	3.95−01	1.76−01	6.27−02	2.11−02	7.56−03	3.30−03	1.95−03	1.51−03
$^5D_2$-$^5D_3$	33.0μm	2.82−01	2.47−01	2.25−01	2.06−01	1.70−01	1.09−01	5.02−02	1.82−02	6.19−03	2.23−03	9.78−04	5.80−04	4.52−04
$^3H_5$-$^3H_6$	40.0μm	1.34−02	1.41−02	1.28−02	9.30−03	5.03−03	2.18−03	8.58−04	3.23−04	1.20−04	4.91−05	2.62−05	1.88−05	1.65−05
$^5D_0$-$^5D_1$	105.0μm	7.19−03	5.67−03	4.07−03	2.49−03	1.33−03	6.32−04	2.50−04	8.60−05	2.87−05	1.03−05	4.56−06	2.72−06	2.12−06

Line intensities (in energy units) are given relative to I(4,658 Å) = 1.00. A + or − B implies A × $10^{\pm B}$.

Table 4. Emission line ratios for transitions among the $3d^6$ levels of Fe III at T_e = 15,000K

Transition	Wavelength, Å	Log N_e 2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
$^3G_4$-$^5D_4$	4,008	2.08−02	2.20−02	2.32−02	2.49−02	2.77−02	3.13−02	3.39−02	3.17−02	2.32−02	1.40−02	8.74−03	6.65−03	5.92−03
$^3G_3$-$^5D_3$	4,046	1.97−03	2.17−03	2.52−03	3.25−03	4.60−03	6.61−03	8.66−03	9.29−03	7.34−03	4.56−03	2.87−03	2.17−03	1.93−03
$^3G_5$-$^5D_4$	4,071	5.05−03	5.21−03	5.27−03	5.22−03	5.10−03	4.91−03	4.65−03	4.16−03	3.22−03	2.11−03	1.40−03	1.09−03	9.85−04
$^3G_4$-$^5D_3$	4,080	7.17−03	7.60−03	8.00−03	8.59−03	9.55−03	1.08−02	1.17−02	1.09−02	7.98−03	4.81−03	3.01−03	2.29−03	2.04−03
$^3G_3$-$^5D_2$	4,097	9.04−04	9.97−04	1.16−03	1.50−03	2.12−03	3.04−03	3.98−03	4.27−03	3.37−03	2.10−03	1.32−03	9.99−04	8.87−04
$^3F_3$-$^5D_4$	4,607	5.38−02	5.35−02	5.49−02	5.91−02	6.75−02	8.00−02	9.34−02	1.03−01	1.05−01	9.84−02	8.78−02	8.06−02	7.74−02
$^3F_4$-$^5D_4$	4,658	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00
$^3F_2$-$^5D_3$	4,667	2.45−02	2.38−02	2.56−02	3.14−02	4.28−02	5.97−02	7.68−02	8.57−02	7.87−02	5.98−02	4.39−02	3.61−02	3.32−02
$^3F_3$-$^5D_3$	4,702	2.88−01	2.87−01	2.95−01	3.17−01	3.62−01	4.29−01	5.01−01	5.53−01	5.64−01	5.28−01	4.71−01	4.32−01	4.15−01
$^3F_2$-$^5D_2$	4,734	8.52−02	8.29−02	8.92−02	1.09−01	1.49−01	2.08−01	2.67−01	2.99−01	2.74−01	2.08−01	1.53−01	1.26−01	1.16−01
$^3F_4$-$^5D_3$	4,755	1.87−01	1.87−01	1.88−01	1.87−01	1.88−01	1.88−01	1.88−01	1.87−01	1.87−01	1.88−01	1.88−01	1.88−01	1.87−01
$^3F_3$-$^5D_2$	4,769	9.96−02	9.92−02	1.02−01	1.10−01	1.25−01	1.48−01	1.73−01	1.91−01	1.95−01	1.82−01	1.63−01	1.49−01	1.43−01
$^3F_2$-$^5D_1$	4,778	4.12−02	4.01−02	4.31−02	5.29−02	7.21−02	1.00−01	1.29−01	1.44−01	1.32−01	1.01−01	7.39−02	6.08−02	5.59−02
$^3H_4$-$^5D_4$	4,881	4.30−01	4.72−01	5.32−01	6.37−01	7.89−01	9.06−01	8.11−01	4.92−01	2.12−01	8.58−02	4.32−02	2.97−02	2.54−02
$^3H_5$-$^5D_4$	4,925	2.82−02	2.99−02	2.77−02	2.05−02	1.14−02	5.00−03	1.97−03	7.41−04	2.73−04	1.10−04	5.65−05	3.95−05	3.41−05
$^3P_0$-$^5D_1$	4,931	1.77−02	1.71−02	1.87−02	2.44−02	3.65−02	5.53−02	7.47−02	9.08−02	1.08−01	1.30−01	1.58−01	1.82−01	1.95−01
$^3H_6$-$^5D_4$	4,986	1.16+00	5.10−01	1.78−01	5.36−02	1.50−02	4.26−03	1.27−03	4.04−04	1.37−04	5.32−05	2.72−05	1.91−05	1.65−05
$^3H_4$-$^5D_3$	4,987	8.41−02	9.22−02	1.04−01	1.24−01	1.54−01	1.77−01	1.58−01	9.61−02	4.15−02	1.68−02	8.44−03	5.80−03	4.97−03
$^3P_1$-$^5D_2$	5,011	1.12−01	1.05−01	1.05−01	1.15−01	1.37−01	1.70−01	2.03−01	2.32−01	2.67−01	3.18−01	3.84−01	4.42−01	4.72−01
$^3H_5$-$^5D_3$	5,033	6.57−03	6.96−03	6.44−03	4.78−03	2.65−03	1.16−03	4.58−04	1.73−04	6.37−05	2.56−05	1.32−05	9.21−06	7.94−06
$^3P_1$-$^5D_0$	5,085	1.91−02	1.79−02	1.80−02	1.97−02	2.35−02	2.91−02	3.48−02	3.98−02	4.58−02	5.46−02	6.59−02	7.58−02	8.10−02
$^3P_2$-$^5D_3$	5,270	5.02−01	4.68−01	4.54−01	4.54−01	4.63−01	4.72−01	4.78−01	4.89−01	5.21−01	5.73−01	6.29−01	6.72−01	6.94−01
$^3P_2$-$^5D_1$	5,412	4.72−02	4.40−02	4.27−02	4.28−02	4.35−02	4.44−02	4.50−02	4.60−02	4.91−02	5.39−02	5.92−02	6.33−02	6.53−02
$^3G_3$-$^3H_4$	2.15μm	1.10−02	1.21−02	1.41−02	1.82−02	2.58−02	3.70−02	4.85−02	5.20−02	4.11−02	2.55−02	1.61−02	1.22−02	1.08−02
$^3G_5$-$^3H_6$	2.22μm	9.86−02	1.02−01	1.03−01	1.02−01	9.97−02	9.60−02	9.08−02	8.13−02	6.30−02	4.13−02	2.73−02	2.14−02	1.92−02
$^3G_4$-$^3H_4$	2.24μm	5.91−02	6.27−02	6.60−02	7.09−02	7.87−02	8.91−02	9.63−02	9.00−02	6.58−02	3.97−02	2.49−02	1.89−02	1.68−02
$^3G_5$-$^3H_5$	2.35μm	6.55−02	6.76−02	6.83−02	6.78−02	6.62−02	6.37−02	6.03−02	5.40−02	4.18−02	2.74−02	1.81−02	1.42−02	1.28−02
$^3G_5$-$^3H_4$	2.45μm	9.05−03	9.34−03	9.44−03	9.36−03	9.15−03	8.80−03	8.33−03	7.46−03	5.78−03	3.79−03	2.51−03	1.96−03	1.77−03
$^3G_4$-$^3F_4$	2.87μm	8.14−03	8.63−03	9.09−03	9.75−03	1.08−02	1.23−02	1.33−02	1.24−02	9.06−03	5.46−03	3.42−03	2.60−03	2.32−03
$^3G_3$-$^3F_3$	2.90μm	3.54−03	3.90−03	4.54−03	5.85−03	8.28−03	1.19−02	1.56−02	1.67−02	1.32−02	8.19−03	5.16−03	3.91−03	3.47−03
$^3G_3$-$^3F_2$	3.04μm	2.11−03	2.33−03	2.71−03	3.49−03	4.94−03	7.09−03	9.29−03	9.96−03	7.87−03	4.89−03	3.08−03	2.33−03	2.07−03
$^3G_5$-$^3F_4$	3.23μm	1.31−02	1.35−02	1.37−02	1.35−02	1.32−02	1.27−02	1.20−02	1.08−02	8.36−03	5.48−03	3.63−03	2.83−03	2.55−03
$^5D_3$-$^5D_4$	22.9μm	6.70−01	5.87−01	5.39−01	4.97−01	4.12−01	2.62−01	1.19−01	4.26−02	1.43−02	5.06−03	2.15−03	1.22−03	9.30−04
$^5D_2$-$^5D_3$	33.0μm	1.84−01	1.61−01	1.46−01	1.34−01	1.11−01	7.21−02	3.38−02	1.24−02	4.20−03	1.50−03	6.38−04	3.66−04	2.79−04
$^3H_5$-$^3H_6$	40.0μm	1.33−02	1.42−02	1.31−02	9.72−03	5.39−03	2.37−03	9.31−04	3.51−04	1.29−04	5.19−05	2.67−05	1.87−05	1.61−05
$^5D_0$-$^5D_1$	105.0μm	4.72−03	3.72−03	2.69−03	1.65−03	8.86−04	4.20−04	1.68−04	5.80−05	1.94−05	6.91−06	2.97−06	1.72−06	1.32−06

Line intensities (in energy units) are given relative to I(4,658 Å) = 1.00. A + or − B implies A × $10^{\pm B}$.

Table 5. Emission line ratios for transitions among the $3d^6$ levels of Fe III at T_e = 20,000K

Transition	Wavelength, Å	Log N_e 2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
$^3G_4$-$^5D_4$	4,008	2.28−02	2.42−02	2.55−02	2.73−02	3.02−02	3.40−02	3.71−02	3.56−02	2.69−02	1.64−02	1.01−02	7.43−03	6.50−03
$^3G_3$-$^5D_3$	4,046	2.19−03	2.41−03	2.78−03	3.53−03	4.94−03	7.07−03	9.36−03	1.04−02	8.53−03	5.38−03	3.32−03	2.44−03	2.13−03
$^3G_5$-$^5D_4$	4,071	5.49−03	5.69−03	5.76−03	5.73−03	5.59−03	5.38−03	5.10−03	4.62−03	3.66−03	2.43−03	1.58−03	1.21−03	1.07−03
$^3G_4$-$^5D_3$	4,080	7.86−03	8.34−03	8.78−03	9.39−03	1.04−02	1.17−02	1.28−02	1.23−02	9.27−03	5.66−03	3.47−03	2.56−03	2.24−03
$^3G_3$-$^5D_2$	4,097	1.01−03	1.11−03	1.28−03	1.62−03	2.27−03	3.25−03	4.30−03	4.77−03	3.92−03	2.47−03	1.52−03	1.12−03	9.79−04
$^3F_3$-$^5D_4$	4,607	5.46−02	5.41−02	5.52−02	5.91−02	6.70−02	7.91−02	9.25−02	1.03−01	1.07−01	1.01−01	8.98−02	8.18−02	7.82−02
$^3F_4$-$^5D_4$	4,658	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00
$^3F_2$-$^5D_3$	4,667	2.57−02	2.48−02	2.63−02	3.16−02	4.24−02	5.87−02	7.61−02	8.67−02	8.19−02	6.34−02	4.61−02	3.72−02	3.38−02
$^3F_3$-$^5D_3$	4,702	2.92−01	2.90−01	2.96−01	3.17−01	3.59−01	4.24−01	4.96−01	5.53−01	5.71−01	5.40−01	4.82−01	4.39−01	4.19−01
$^3F_2$-$^5D_2$	4,734	8.96−02	8.64−02	9.14−02	1.10−01	1.48−01	2.04−01	2.65−01	3.02−01	2.85−01	2.21−01	1.60−01	1.29−01	1.18−01
$^3F_4$-$^5D_3$	4,755	1.88−01	1.88−01	1.87−01	1.87−01	1.88−01	1.87−01	1.87−01	1.88−01	1.88−01	1.88−01	1.87−01	1.87−01	1.88−01
$^3F_3$-$^5D_2$	4,769	1.01−01	1.00−01	1.02−01	1.09−01	1.24−01	1.46−01	1.71−01	1.91−01	1.97−01	1.86−01	1.66−01	1.52−01	1.45−01
$^3F_2$-$^5D_1$	4,778	4.33−02	4.18−02	4.42−02	5.31−02	7.13−02	9.88−02	1.28−01	1.46−01	1.38−01	1.07−01	7.76−02	6.26−02	5.68−02
$^3H_4$-$^5D_4$	4,881	4.59−01	5.02−01	5.59−01	6.59−01	8.10−01	9.37−01	8.66−01	5.49−01	2.42−01	9.55−02	4.57−02	3.01−02	2.52−02
$^3H_5$-$^5D_4$	4,925	2.83−02	3.03−02	2.85−02	2.19−02	1.26−02	5.62−03	2.22−03	8.36−04	3.07−04	1.20−04	5.92−05	3.98−05	3.36−05
$^3P_0$-$^5D_1$	4,931	1.76−02	1.69−02	1.82−02	2.33−02	3.44−02	5.23−02	7.14−02	8.78−02	1.04−01	1.26−01	1.53−01	1.79−01	1.93−01
$^3H_6$-$^5D_4$	4,986	1.27+00	5.79−01	2.06−01	6.30−02	1.77−02	4.98−03	1.47−03	4.62−04	1.55−04	5.82−05	2.84−05	1.91−05	1.62−05
$^3H_4$-$^5D_3$	4,987	8.96−02	9.80−02	1.09−01	1.29−01	1.58−01	1.83−01	1.69−01	1.07−01	4.73−02	1.87−02	8.93−03	5.88−03	4.92−03
$^3P_1$-$^5D_2$	5,011	1.09−01	1.02−01	1.02−01	1.10−01	1.30−01	1.61−01	1.93−01	2.22−01	2.56−01	3.05−01	3.69−01	4.28−01	4.61−01
$^3H_5$-$^5D_3$	5,033	6.60−03	7.05−03	6.65−03	5.10−03	2.93−03	1.31−03	5.17−04	1.95−04	7.16−05	2.80−05	1.38−05	9.26−06	7.82−06
$^3P_1$-$^5D_0$	5,085	1.87−02	1.75−02	1.74−02	1.89−02	2.23−02	2.76−02	3.32−02	3.81−02	4.40−02	5.23−02	6.33−02	7.34−02	7.91−02
$^3P_2$-$^5D_3$	5,270	4.95−01	4.61−01	4.45−01	4.44−01	4.49−01	4.56−01	4.60−01	4.68−01	4.97−01	5.46−01	5.98−01	6.39−01	6.60−01
$^3P_2$-$^5D_1$	5,412	4.66−02	4.34−02	4.19−02	4.17−02	4.23−02	4.29−02	4.33−02	4.41−02	4.68−02	5.14−02	5.63−02	6.01−02	6.22−02
$^3G_3$-$^3H_4$	2.15μm	1.23−02	1.35−02	1.55−02	1.97−02	2.76−02	3.96−02	5.24−02	5.80−02	4.78−02	3.01−02	1.86−02	1.37−02	1.19−02
$^3G_5$-$^3H_6$	2.22μm	1.07−01	1.11−01	1.13−01	1.12−01	1.09−01	1.05−01	9.96−02	9.02−02	7.16−02	4.76−02	3.10−02	2.36−02	2.09−02
$^3G_4$-$^3H_4$	2.24μm	6.48−02	6.88−02	7.25−02	7.75−02	8.57−02	9.68−02	1.05−01	1.01−01	7.65−02	4.67−02	2.86−02	2.11−02	1.85−02
$^3G_5$-$^3H_5$	2.35μm	7.13−02	7.38−02	7.48−02	7.43−02	7.26−02	6.98−02	6.61−02	5.99−02	4.75−02	3.16−02	2.06−02	1.57−02	1.39−02
$^3G_5$-$^3H_4$	2.45μm	9.85−03	1.02−02	1.03−02	1.03−02	1.00−02	9.64−03	9.13−03	8.28−03	6.57−03	4.37−03	2.84−03	2.16−03	1.92−03
$^3G_4$-$^3F_4$	2.87μm	8.92−03	9.48−03	9.98−03	1.07−02	1.18−02	1.33−02	1.45−02	1.39−02	1.05−02	6.43−03	3.94−03	2.91−03	2.55−03
$^3G_3$-$^3F_3$	2.90μm	3.94−03	4.34−03	4.99−03	6.34−03	8.88−03	1.27−02	1.68−02	1.86−02	1.53−02	9.68−03	5.97−03	4.39−03	3.83−03
$^3G_3$-$^3F_2$	3.04μm	2.35−03	2.59−03	2.98−03	3.78−03	5.29−03	7.58−03	1.00−02	1.11−02	9.15−03	5.77−03	3.56−03	2.62−03	2.29−03
$^3G_5$-$^3F_4$	3.23μm	1.42−02	1.47−02	1.49−02	1.48−02	1.45−02	1.39−02	1.32−02	1.20−02	9.50−03	6.31−03	4.11−03	3.13−03	2.78−03
$^5D_3$-$^5D_4$	22.9μm	4.36−01	3.82−01	3.49−01	3.23−01	2.71−01	1.77−01	8.25−02	3.00−02	1.01−02	3.51−03	1.44−03	7.84−04	5.76−04
$^5D_2$-$^5D_3$	33.0μm	1.20−01	1.05−01	9.46−02	8.65−02	7.25−02	4.83−02	2.32−02	8.67−03	2.95−03	1.04−03	4.28−04	2.35−04	1.74−04
$^3H_5$-$^3H_6$	40.0μm	1.34−02	1.43−02	1.35−02	1.04−02	5.95−03	2.66−03	1.05−03	3.96−04	1.46−04	5.70−05	2.80−05	1.88−05	1.59−05
$^5D_0$-$^5D_1$	105.0μm	3.05−03	2.42−03	1.76−03	1.09−03	5.89−04	2.82−04	1.14−04	4.00−05	1.34−05	4.74−06	1.98−06	1.11−06	8.25−07

Line intensities (in energy units) are given relative to I(4,658 Å) = 1.00. A + or − B implies A × $10^{\pm B}$.

Table 6. Emission line ratios for transitions among the $3d^2$ levels of Fe VII at T_e = 10,000K

Transition	Wavelength, Å	Log N_e 2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
$^1S_0$-$^1D_2$	2,015	2.71−04	2.48−04	2.41−04	2.24−04	2.62−04	2.62−04	2.44−04	2.70−04	2.91−04	3.29−04	4.49−04	7.18−04	1.33−03
$^1G_4$-$^3F_3$	3,587	9.46−02	9.46−02	9.46−02	9.46−02	9.47−02	9.50−02	9.56−02	9.69−02	9.83−02	9.75−02	8.94−02	7.55−02	6.53−02
$^1G_4$-$^3F_4$	3,759	1.32−01	1.32−01	1.32−01	1.32−01	1.33−01	1.33−01	1.34−01	1.36−01	1.38−01	1.36−01	1.25−01	1.06−01	9.13−02
$^3P_2$-$^3F_2$	4,699	9.01−02	9.02−02	9.03−02	9.09−02	9.25−02	9.71−02	1.08−01	1.26−01	1.36−01	1.24−01	9.09−02	6.10−02	4.61−02
$^3P_1$-$^3F_2$	4,893	1.04−01	1.04−01	1.04−01	1.03−01	1.03−01	1.01−01	9.56−02	8.34−02	6.33−02	4.00−02	2.21−02	1.27−02	8.99−03
$^3P_2$-$^3F_3$	4,942	3.43−02	3.43−02	3.44−02	3.46−02	3.52−02	3.70−02	4.12−02	4.79−02	5.19−02	4.73−02	3.46−02	2.32−02	1.75−02
$^3P_0$-$^3F_2$	4,989	1.86−01	1.85−01	1.85−01	1.84−01	1.81−01	1.72−01	1.50−01	1.13−01	7.36−02	4.15−02	2.15−02	1.20−02	8.41−03
$^3P_1$-$^3F_3$	5,159	1.49−01	1.49−01	1.49−01	1.49−01	1.48−01	1.45−01	1.38−01	1.20−01	9.11−02	5.76−02	3.18−02	1.83−02	1.29−02
$^3P_2$-$^3F_4$	5,276	3.39−02	3.39−02	3.40−02	3.42−02	3.48−02	3.65−02	4.07−02	4.73−02	5.13−02	4.67−02	3.42−02	2.29−02	1.73−02
$^1D_2$-$^3F_2$	5,721	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00
$^1D_2$-$^3F_3$	6,087	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01
$^1D_2$-$^3F_4$	6,601	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04
$^3P_2$-$^1D_2$	2.63μm	1.77−02	1.77−02	1.77−02	1.78−02	1.81−02	1.91−02	2.12−02	2.47−02	2.68−02	2.44−02	1.78−02	1.20−02	9.04−03
$^3P_1$-$^1D_2$	3.39μm	1.71−02	1.71−02	1.71−02	1.70−02	1.69−02	1.66−02	1.58−02	1.37−02	1.04−02	6.60−03	3.64−03	2.10−03	1.48−03
$^3F_4$-$^3F_3$	7.81μm	8.89−01	8.90−01	8.91−01	8.95−01	9.06−01	9.30−01	9.34−01	7.75−01	4.43−01	1.91−01	7.75−02	3.66−02	2.31−02
$^3F_3$-$^3F_2$	9.51μm	3.15+00	3.15+00	3.13+00	3.10+00	2.99+00	2.67+00	1.98+00	1.03+00	3.76−01	1.24−01	4.50−02	2.03−02	1.25−02

Line intensities (in energy units) are given relative to I(5,721 Å) = 1.00. A + or − B implies A × $10^{\pm B}$.

Table 7. Emission line ratios for transitions among the $3d^2$ levels of Fe VII at T_e = 15,000K

Transition	Wavelength, Å	Log N_e 2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
$^1S_0$-$^1D_2$	2,015	2.45−03	2.45−03	2.45−03	2.46−03	2.45−03	2.46−03	2.50−03	2.56−03	2.75−03	3.21−03	4.29−03	6.85−03	1.27−02
$^1G_4$-$^3F_3$	3,587	1.89−01	1.89−01	1.89−01	1.89−01	1.89−01	1.90−01	1.90−01	1.91−01	1.92−01	1.88−01	1.71−01	1.40−01	1.17−01
$^1G_4$-$^3F_4$	3,759	2.65−01	2.65−01	2.65−01	2.65−01	2.65−01	2.65−01	2.66−01	2.67−01	2.68−01	2.64−01	2.39−01	1.96−01	1.64−01
$^3P_2$-$^3F_2$	4,699	1.19−01	1.19−01	1.19−01	1.20−01	1.21−01	1.25−01	1.36−01	1.55−01	1.69−01	1.58−01	1.18−01	7.83−02	5.73−02
$^3P_1$-$^3F_2$	4,893	1.26−01	1.26−01	1.26−01	1.26−01	1.25−01	1.23−01	1.18−01	1.04−01	8.04−02	5.17−02	2.86−02	1.60−02	1.08−02
$^3P_2$-$^3F_3$	4,942	4.53−02	4.53−02	4.54−02	4.56−02	4.61−02	4.77−02	5.17−02	5.88−02	6.43−02	6.01−02	4.49−02	2.98−02	2.18−02
$^3P_0$-$^3F_2$	4,989	2.24−01	2.23−01	2.23−01	2.22−01	2.19−01	2.10−01	1.87−01	1.45−01	9.55−02	5.39−02	2.76−02	1.49−02	9.96−03
$^3P_1$-$^3F_3$	5,159	1.81−01	1.81−01	1.81−01	1.81−01	1.80−01	1.77−01	1.69−01	1.50−01	1.16−01	7.45−02	4.11−02	2.30−02	1.56−02
$^3P_2$-$^3F_4$	5,276	4.48−02	4.48−02	4.48−02	4.50−02	4.55−02	4.71−02	5.11−02	5.81−02	6.35−02	5.93−02	4.44−02	2.95−02	2.16−02
$^1D_2$-$^3F_2$	5,721	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00
$^1D_2$-$^3F_3$	6,087	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01
$^1D_2$-$^3F_4$	6,601	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04
$^3P_2$-$^1D_2$	2.63μm	2.33−02	2.33−02	2.34−02	2.35−02	2.37−02	2.46−02	2.66−02	3.03−02	3.31−02	3.09−02	2.32−02	1.54−02	1.12−02
$^3P_1$-$^1D_2$	3.39μm	2.08−02	2.08−02	2.08−02	2.07−02	2.06−02	2.03−02	1.94−02	1.71−02	1.33−02	8.52−03	4.71−03	2.63−03	1.78−03
$^3F_4$-$^3F_3$	7.81μm	4.09−01	4.10−01	4.10−01	4.11−01	4.16−01	4.25−01	4.31−01	3.78−01	2.33−01	1.05−01	4.27−02	1.95−02	1.17−02
$^3F_3$-$^3F_2$	9.51μm	1.39+00	1.39+00	1.38+00	1.37+00	1.33+00	1.22+00	9.51−01	5.36−01	2.08−01	6.88−02	2.42−02	1.04−02	6.05−03

Line intensities (in energy units) are given relative to I(5,721 Å) = 1.00. A + or − B implies A × $10^{\pm B}$.

Table 8. Emission line ratios for transitions among the $3d^2$ levels of Fe VII at T_e = 20,000K

Transition	Wavelength, Å	Log N_e 2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
$^1S_0$-$^1D_2$	2,015	7.39−03	7.39−03	7.39−03	7.38−03	7.39−03	7.41−03	7.47−03	7.66−03	8.21−03	9.62−03	1.29−02	2.04−02	3.76−02
$^1G_4$-$^3F_3$	3,587	2.89−01	2.89−01	2.89−01	2.89−01	2.89−01	2.89−01	2.88−01	2.87−01	2.85−01	2.78−01	2.48−01	1.98−01	1.60−01
$^1G_4$-$^3F_4$	3,759	4.05−01	4.05−01	4.05−01	4.05−01	4.05−01	4.04−01	4.03−01	4.02−01	3.99−01	3.89−01	3.47−01	2.78−01	2.24−01
$^3P_2$-$^3F_2$	4,699	1.45−01	1.45−01	1.45−01	1.46−01	1.47−01	1.50−01	1.60−01	1.78−01	1.94−01	1.84−01	1.39−01	9.13−02	6.49−02
$^3P_1$-$^3F_2$	4,893	1.45−01	1.45−01	1.45−01	1.45−01	1.44−01	1.42−01	1.36−01	1.21−01	9.49−02	6.15−02	3.39−02	1.85−02	1.21−02
$^3P_2$-$^3F_3$	4,942	5.53−02	5.53−02	5.54−02	5.55−02	5.59−02	5.73−02	6.09−02	6.78−02	7.39−02	6.99−02	5.30−02	3.47−02	2.47−02
$^3P_0$-$^3F_2$	4,989	2.56−01	2.56−01	2.56−01	2.55−01	2.52−01	2.43−01	2.20−01	1.74−01	1.15−01	6.49−02	3.28−02	1.72−02	1.10−02
$^3P_1$-$^3F_3$	5,159	2.09−01	2.09−01	2.09−01	2.08−01	2.07−01	2.04−01	1.96−01	1.75−01	1.37−01	8.86−02	4.88−02	2.66−02	1.74−02
$^3P_2$-$^3F_4$	5,276	5.46−02	5.47−02	5.47−02	5.48−02	5.53−02	5.66−02	6.02−02	6.70−02	7.30−02	6.91−02	5.23−02	3.43−02	2.44−02
$^1D_2$-$^3F_2$	5,721	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00
$^1D_2$-$^3F_3$	6,087	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01
$^1D_2$-$^3F_4$	6,601	3.70−04	3.71−04	3.71−04	3.70−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04
$^3P_2$-$^1D_2$	2.63μm	2.85−02	2.85−02	2.85−02	2.86−02	2.88−02	2.95−02	3.14−02	3.49−02	3.81−02	3.60−02	2.73−02	1.79−02	1.27−02
$^3P_1$-$^1D_2$	3.39μm	2.39−02	2.39−02	2.39−02	2.38−02	2.37−02	2.34−02	2.24−02	2.00−02	1.56−02	1.01−02	5.58−03	3.04−03	1.99−03
$^3F_4$-$^3F_3$	7.81μm	2.78−01	2.78−01	2.78−01	2.79−01	2.81−01	2.86−01	2.91−01	2.63−01	1.72−01	8.04−02	3.28−02	1.46−02	8.47−03
$^3F_3$-$^3F_2$	9.51μm	9.19−01	9.19−01	9.17−01	9.09−01	8.87−01	8.24−01	6.66−01	3.99−01	1.62−01	5.43−02	1.87−02	7.72−03	4.30−03

Line intensities (in energy units) are given relative to I(5,721 Å) = 1.00. A + or − B implies A × $10^{\pm B}$.

Table 9. Emission line ratios for transitions among the $3d^2$ levels of Fe VII at T_e = 25,000K

Transition	Wavelength, Å	Log N_e 2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
$^1S_0$-$^1D_2$	2,015	1.41−02	1.41−02	1.41−02	1.41−02	1.41−02	1.41−02	1.42−02	1.46−02	1.56−02	1.84−02	2.47−02	3.89−02	7.14−02
$^1G_4$-$^3F_3$	3,587	3.56−01	3.56−01	3.56−01	3.56−01	3.56−01	3.56−01	3.55−01	3.54−01	3.52−01	3.42−01	3.06−01	2.43−01	1.92−01
$^1G_4$-$^3F_4$	3,759	4.98−01	4.98−01	4.98−01	4.98−01	4.98−01	4.98−01	4.97−01	4.95−01	4.92−01	4.79−01	4.28−01	3.40−01	2.69−01
$^3P_2$-$^3F_2$	4,699	1.59−01	1.59−01	1.59−01	1.59−01	1.60−01	1.63−01	1.72−01	1.90−01	2.07−01	1.99−01	1.53−01	9.99−02	7.00−02
$^3P_1$-$^3F_2$	4,893	1.53−01	1.53−01	1.53−01	1.53−01	1.52−01	1.50−01	1.45−01	1.30−01	1.03−01	6.80−02	3.76−02	2.02−02	1.29−02
$^3P_2$-$^3F_3$	4,942	6.03−02	6.04−02	6.04−02	6.05−02	6.10−02	6.22−02	6.56−02	7.24−02	7.90−02	7.57−02	5.81−02	3.81−02	2.66−02
$^3P_0$-$^3F_2$	4,989	2.68−01	2.68−01	2.67−01	2.67−01	2.64−01	2.55−01	2.33−01	1.87−01	1.26−01	7.20−02	3.64−02	1.88−02	1.18−02
$^3P_1$-$^3F_3$	5,159	2.21−01	2.20−01	2.20−01	2.20−01	2.19−01	2.16−01	2.08−01	1.88−01	1.49−01	9.78−02	5.41−02	2.91−02	1.86−02
$^3P_2$-$^3F_4$	5,276	5.96−02	5.96−02	5.96−02	5.98−02	6.02−02	6.14−02	6.48−02	7.15−02	7.80−02	7.48−02	5.74−02	3.76−02	2.63−02
$^1D_2$-$^3F_2$	5,721	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00
$^1D_2$-$^3F_3$	6,087	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01
$^1D_2$-$^3F_4$	6,601	3.71−04	3.71−04	3.70−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04
$^3P_2$-$^1D_2$	2.63μm	3.11−02	3.11−02	3.11−02	3.12−02	3.14−02	3.21−02	3.38−02	3.73−02	4.07−02	3.90−02	2.99−02	1.96−02	1.37−02
$^3P_1$-$^1D_2$	3.39μm	2.52−02	2.52−02	2.52−02	2.52−02	2.51−02	2.48−02	2.38−02	2.15−02	1.70−02	1.12−02	6.19−03	3.34−03	2.13−03
$^3F_4$-$^3F_3$	7.81μm	2.24−01	2.24−01	2.24−01	2.24−01	2.25−01	2.29−01	2.32−01	2.12−01	1.44−01	6.88−02	2.82−02	1.23−02	7.00−03
$^3F_3$-$^3F_2$	9.51μm	7.15−01	7.15−01	7.13−01	7.08−01	6.93−01	6.48−01	5.35−01	3.33−01	1.41−01	4.75−02	1.62−02	6.52−03	3.52−03

Line intensities (in energy units) are given relative to I(5,721 Å) = 1.00. A + or − B implies A × $10^{\pm B}$.

Table 10. Emission line ratios for transitions among the $3d^2$ levels of Fe VII at T_e = 30,000K

Transition	Wavelength, Å	Log N_e 2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
$^1S_0$-$^1D_2$	2,015	2.09−02	2.09−02	2.09−02	2.09−02	2.09−02	2.10−02	2.12−02	2.18−02	2.34−02	2.77−02	3.75−02	5.90−02	1.08−01
$^1G_4$-$^3F_3$	3,587	4.16−01	4.16−01	4.16−01	4.16−01	4.15−01	4.15−01	4.15−01	4.14−01	4.11−01	3.99−01	3.56−01	2.80−01	2.19−01
$^1G_4$-$^3F_4$	3,759	5.81−01	5.82−01	5.82−01	5.81−01	5.81−01	5.81−01	5.80−01	5.79−01	5.75−01	5.58−01	4.98−01	3.92−01	3.06−01
$^3P_2$-$^3F_2$	4,699	1.70−01	1.70−01	1.70−01	1.70−01	1.71−01	1.75−01	1.83−01	2.01−01	2.19−01	2.11−01	1.64−01	1.07−01	7.40−02
$^3P_1$-$^3F_2$	4,893	1.60−01	1.60−01	1.60−01	1.60−01	1.59−01	1.57−01	1.52−01	1.38−01	1.11−01	7.36−02	4.08−02	2.18−02	1.37−02
$^3P_2$-$^3F_3$	4,942	6.47−02	6.47−02	6.47−02	6.49−02	6.53−02	6.65−02	6.97−02	7.64−02	8.33−02	8.05−02	6.24−02	4.08−02	2.82−02
$^3P_0$-$^3F_2$	4,989	2.77−01	2.77−01	2.77−01	2.76−01	2.74−01	2.66−01	2.44−01	1.99−01	1.36−01	7.82−02	3.95−02	2.01−02	1.24−02
$^3P_1$-$^3F_3$	5,159	2.30−01	2.30−01	2.30−01	2.30−01	2.29−01	2.27−01	2.19−01	1.99−01	1.60−01	1.06−01	5.88−02	3.13−02	1.97−02
$^3P_2$-$^3F_4$	5,276	6.39−02	6.39−02	6.40−02	6.41−02	6.45−02	6.57−02	6.89−02	7.55−02	8.23−02	7.95−02	6.17−02	4.03−02	2.78−02
$^1D_2$-$^3F_2$	5,721	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00	1.00+00
$^1D_2$-$^3F_3$	6,087	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01	1.74−01
$^1D_2$-$^3F_4$	6,601	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04	3.71−04
$^3P_2$-$^1D_2$	2.63μm	3.33−02	3.33−02	3.34−02	3.34−02	3.36−02	3.43−02	3.59−02	3.94−02	4.29−02	4.15−02	3.22−02	2.10−02	1.45−02
$^3P_1$-$^1D_2$	3.39μm	2.64−02	2.64−02	2.64−02	2.63−02	2.62−02	2.59−02	2.51−02	2.28−02	1.83−02	1.21−02	6.73−03	3.59−03	2.25−03
$^3F_4$-$^3F_3$	7.81μm	1.92−01	1.92−01	1.93−01	1.93−01	1.94−01	1.96−01	1.98−01	1.84−01	1.28−01	6.27−02	2.58−02	1.12−02	6.20−03
$^3F_3$-$^3F_2$	9.51μm	6.01−01	6.01−01	6.00−01	5.96−01	5.84−01	5.50−01	4.61−01	2.97−01	1.30−01	4.43−02	1.50−02	5.91−03	3.10−03

Line intensities (in energy units) are given relative to I(5,721 Å) = 1.00. A + or − B implies A × $10^{\pm B}$.