S3 Text. Structural similarity score for model clustering.

The S_{mirror} score of a given pair of models *i* and *j* is computed as:

$$S_{mirror_{i,j}} = Eqv_{i,j} \times \frac{dRMSD_n/\max(dRMSD)}{RMSD_n/\max(RMSD)}$$

Where $Eqv_{i,j}$ is the number of equivalent positions between two superimposed structures within a specific distance cut-off; $dRMSD_n$ is the normalized (*i.e.*, the dRMSD divided by the maximal dRMSD in all structural comparisons) distance RMSD between two aligned structures; and $RMSD_n$ is the normalized RMSD between two aligned structures. This results in a comparison matrix, consisting of all-against-all S_{mirror} scores, which is then used to resolve structural mirrors (conformations with the same IMP objective function that are mirrors of each other). Next, the comparison matrix is input to the