

















OLD	Top 20 , 7!=5040 possible pairs of codebook vectors.				
1.x style		Δ,	C _M	I (permutation)	
	1. 2. 3. 4. 5. 5. 7. 8. 9. 10. 11. 12. 13. 14. 15. 14. 15. 14. 15. 14. 15. 16. 17. 19. 20.	3.115 4.946 5.455 6.316 7.612 7.855 7.994 8.0192 8.244 8.238 8.244 8.238 8.481 8.516 8.532 8.985 8.985 8.985 9.092 9.124 9.236	$\begin{array}{c} 0.913\\ 0.904\\ 0.882\\ 0.867\\ 0.884\\ 0.863\\ 0.884\\ 0.863\\ 0.884\\ 0.884\\ 0.863\\ 0.881\\ 0.881\\ 0.881\\ 0.867\\ 0.885\\ 0.857\\ 0.861\\ 0.838\\ 0.858\\ 0.858\\ 0.858\\ 0.858\\ \end{array}$	(7,5,1,6,4,2,3) (2,3,5,7,4,6,1) (6,1,3,2,4,4,5) (5,7,1,4,6,3,2) (3,2,4,1,5,6,7) (1,6,4,5,3,7,2) (6,1,4,3,5,2,7) (2,6,4,3,1,7,5) (7,5,6,2,1,3,4) (2,6,7,5,1,3,4) (6,2,4,5,7,7) (2,4,6,2,1,5,7) (2,3,4,5,2,7) (2,3,4,5,1,7,6) (7,5,4,7,1,6) (3,2,5,7,4,2,3)	For a fixed <i>k</i> , codebook rmsd is more stringent criterion than correlation coefficient!













Clarification of Paradigm Shift in Coarse–Graining Currently Under Way

Old style:	Current style:
Situs 1.x, <i>qrange</i>	Situs 2.5, matchpoint, qplasty
rigid body docking only	rigid-body docking and flexible docking (see below)
restricted to single molecule matching, i.e. $h = k$	OK to dock subunits into larger EM maps of assemblies, i.e. $h > k$
limited range $3 \le k \le 9$ explored automatically by exhaustive enumeration of $k!$ possibilities	no restriction on number of points (tree pruning in <i>matchpoint</i> handles larger number efficiently)
number of points typically selected from this limited range by using lowest variability criterion (justification: see slide "Perfomance II" above)	number of points now typically estimated based on number of resolved features (volume / EM resolution analysis in previous slide)

