

B-Factor Computation

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1 Theoretical Background

Identification and interpretation of high resolution structural features are hindered by the contrast loss caused by experimental and computational factors. This contrast loss is traditionally modeled by a Gaussian decay of structure factors with a temperature factor, or B-factor. Standard restoration procedures usually sharpen the experimental maps by applying a Gaussian function with an inverse ad hoc B-factor.

2 Calculation

see [1] for details

3 Objective

Using Matlab compute the B-factor as described in [1].

4 Bibliography

[1] Sharpening high resolution information in single particle electron cryomicroscopy. by fernandez et al. doi:10.1016/j.jsb.2008.05.010