

Abstract Submitted
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Employing Solution X-Ray Scattering to Investigate Conformational Changes of Proteins MUSTAFA TEKPINAR, WENJUN ZHENG, Department of Physics, University at Buffalo — Many proteins undergo global conformational changes to perform their functions. Small/Wide Angle Solution X-Ray Scattering (S/WAXS) is an increasingly used experimental technique to probe conformational changes of proteins in aqueous environment. We have developed a new modeling method to reconstruct coarse-grained and atomistic 3D models from S/WAXS data. The method has been applied to a variety of proteins including the R-T transition of hemoglobin.

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