Abstract Submitted
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Anisotropy Analysis of Polymer Chains upon Uniaxial Extension HOWARD WANG, Institute for Material Research, State University of New York, Binghamton, HAO SUN, SHI-QING WANG, Department of Polymer Science, University of Akron, YANGYANG WANG, Department of Chemistry, University of Tennessee, Knoxville — Small angle neutron scattering has been used to measure entangled chains in polymer melts upon uniaxial stretching. The scattering anisotropy strongly depends on neutron moment transfer vector, revealing chain relaxation at different length scales. Such analysis allows for the comparison of various model predictions.

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