

French - German opportunities of cooperation to face the European revolution in neutron science



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Structural properties of a pH and temperature responsive telechelic pentablock terpolymer in dilute solution

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Stimuli-responsive physical hydrogels change their properties upon a small change of the environment and may be used as fast sensors, for drug delivery or for tissue engineering. In this work, we investigate the telechelic pentablock terpolymer P(n-BuMA-co-TEGMA)-b-PDMAEMA-b-PEG-b-PDMAEMA-b-P(n-BuMA-co-TEGMA) in dilute aqueous solution as a function of temperature and pH using small-angle neutron scattering (SANS), elucidating the core-shell structure and the conformation of chains in the shell.

Authors: JUNG, Florian (Technische Universität München); Ms PANTELI, Panayiota A. (Department of Chemistry, University of Cyprus, Nicosia, Cyprus); KO, Chia-Hsin (E13, Physik-Department, Technische Universität München.); KANG, Jia-Jhen (Technical University of Munich); BARNSLEY, Lester (Jülich Centre for Neutron Science); Prof. TSITSILIANIS, Constantinos (Department of Chemical Engineering, University of Patras, Patras, Greece); Prof. PATRICKIOS, Costas S. (Department of Chemistry, University of Cyprus, Nicosia, Cyprus); PAPADAKIS, Christine (Technische Universität München, Physik-Department, Fachgebiet Physik weicher Materie)

Presenter: JUNG, Florian (Technische Universität München)

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