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**Microscopic and spectroscopic studies of the surfactant-assisted dispersion process of CoMoCAT carbon nanotubes in water** ADELINA SANTOS, DOUGLAS ALVES, VALDIRENE PERESSINOTTO, CLASCIDIA FURTADO, CDTN/CNEN, MAURICIO SOUZA, FLAVIO PLENTZ, HENRIQUE RIBEIRO, ADO JORIO, MARCOS PIMENTA, Department of Physics - UFMG, DANIEL RESASCO, University of Oklahoma — Recent Raman studies carried out on the precipitant and supernatant fractions after the centrifugation step of the surfactant-assisted dispersion of CoMoCAT carbon nanotubes in water have indicated an apparent selectivity of the dispersion process for some specific tubes. To get a better understanding of this phenomenon, we have combined SEM, Raman spectroscopy and photoluminescence techniques to investigate in details the suspendability properties of CoMoCAT samples in aqueous solutions of anionic surfactants under different experimental conditions.

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