

S1-P.53**Preparation of Fine Bentonite Suspensions in Cavitation Fields**

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It was demonstrated that application of ultrasonic, hydrodynamic, and bifrequency cavitation for bentonite dispergation allows one to obtain suspensions of nanoscale particles. It was investigated how the dimensions of the particles depend on the amplitude of oscillations, duration of the treatment, and static pressure. The results of the electron microscopic examination of the suspensions were analysed.