Filtration of Nanoparticle Agglomerates

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NNIN Facilities utilized: Characterization Facility & Particle Technology Laboratory

- Experiments for nanoparticle agglomerates filtration by fibrous filters
  - Controllable morphology from loose agglomerates to spheres
  - Particle concentrations up and down-stream of the filter measured

- MAJOR OBSERVATIONS
  - Penetration of agglomerates is lower than that of spheres of the same mobility diameter
  - Larger interception length of agglomerates is the reason

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