



Contribution ID: 84

Type: **not specified**

Measuring the size distribution of ultrafine particles by means of diffusion selectors

Monday, 16 September 2024 14:55 (20 minutes)

The problem of measuring the size distribution of ultrafine (nano and submicron-sized) particles is important to determine the physical and chemical properties of aerosols, their toxicity. We give a quick review of some statistical methods used in the literature to solve this problem, for instance an EM algorithm for the reconstruction of particle size distributions from diffusion battery data. We also present some simulation studies carried out during an ongoing work exploring new directions of research on this topic.

Type of presentation

Talk

Classification

Both methodology and application

Keywords

Aerosol; size distribution; EM algorithm

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Session Classification: Applications of learning and statistics

Track Classification: Stochastic Modelling