

Students' Annual Seminar

Understanding intensity distribution of molecular beams

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Atomic and molecular beams methods are key tools for understanding collisional energy transfer among atoms/molecules and surfaces. Often an important part of atomic/molecular beam based experiment is to produce beams with intensity as high as possible, since it has an important bearing on the ultimate signal to noise and signal to background ratio achievable. In this talk I will give an overview of our recent efforts to understand and characterize the intensity distributions of atomic/molecular beams. In particular, I will focus on the following aspects: (1) Understanding angular distribution of atomic/molecular beams containing a mixture of different gases. (2) Relevance of molecular beam characterization experiments for neutral atom scattering measurements, currently being developed in our group as a microscopy technique.

Friday, Mar 1st 2019

2:30 PM (Tea/Coffee at 1:45 PM)

Seminar Hall, TIFR-H