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## National Electrostatics Corp: Product Overview & Discussion

*Tuesday, 22 October 2024 15:30 (20 minutes)*

We present a brief overview of the National Electrostatics Corp. (NEC) AMS systems over the last 30 years, leading the transition from multi-MV tandems to compact sub-MV tandems, CAMS, XCAMS and UAMS, and even lower energy single-stage SSAMS and the positive ion system, PIMS.

We will also discuss three recent beamline components that are now being installed in NEC state-of-the-art AMS systems. We will describe the result of the evolution of the ubiquitous NEC BPM80 beam-profile monitor series into the stepper-motor driven BPM90 series and present data from a new low-current BPM model capable of measuring beam location and profile for beam currents from 1 picoamp to over 12microamp, an eight-decade range.

We will also describe a current-measuring system that is also capable of measuring sub-pA beam currents, and the new variable Pulsed Beam Attenuator that facilitated the testing of the two low-current components.

### Student Submission

No

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