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Plans for the new K600 focal plane detector

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A new position sensitive detector system for the focal plane of the K600 magnetic spectrometer is currently being developed. The existing focal plane detectors (FPDs) were designed to detect $Z \le 2$ ions with kinetic energies 30 MeV/u or higher. A new low-pressure gas-filled tracker combined with a stopping scintillator detector is required to allow for the efficient detection of heavier particles (Z > 2) over a range of kinetic energies, as well as light particles ($Z \le 2$) at lower kinetic energies ($Z \le 2$) at lower kinetic energies ($Z \le 2$) and an overview of the design of the new FPD will be presented.

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