

Scint. Screen & Camera 2021 DESY Testbeam Ideas

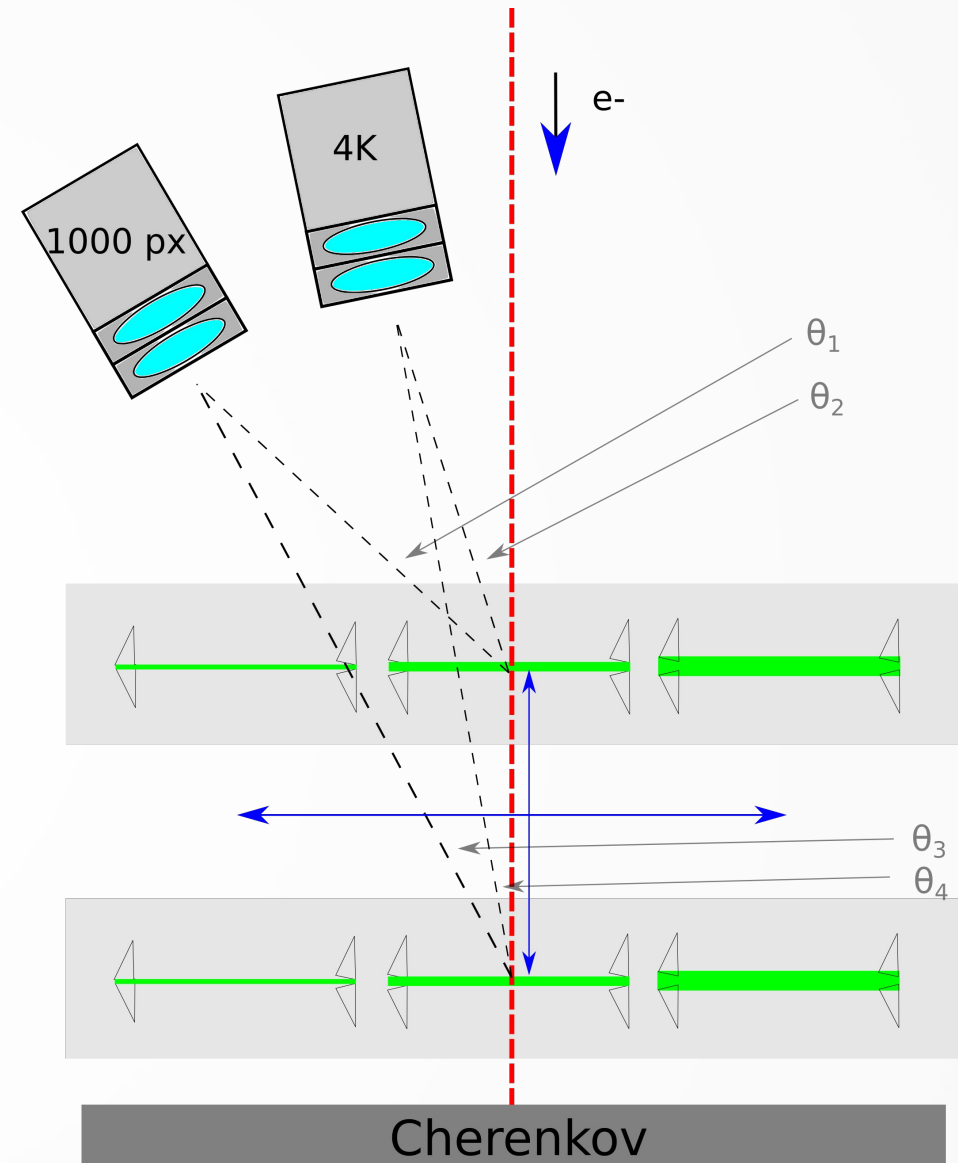
John Hallford

University College London

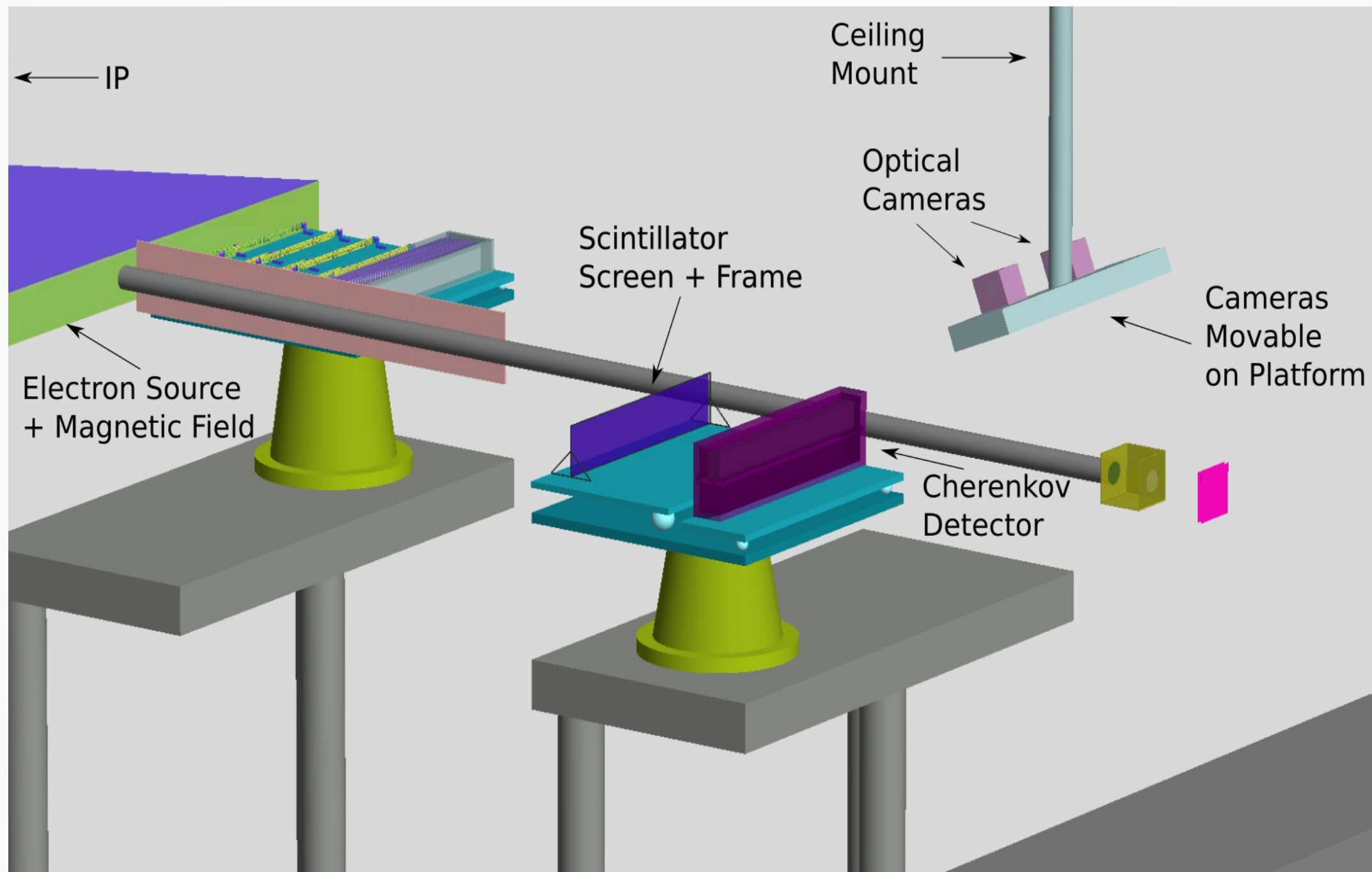
12/05/2021

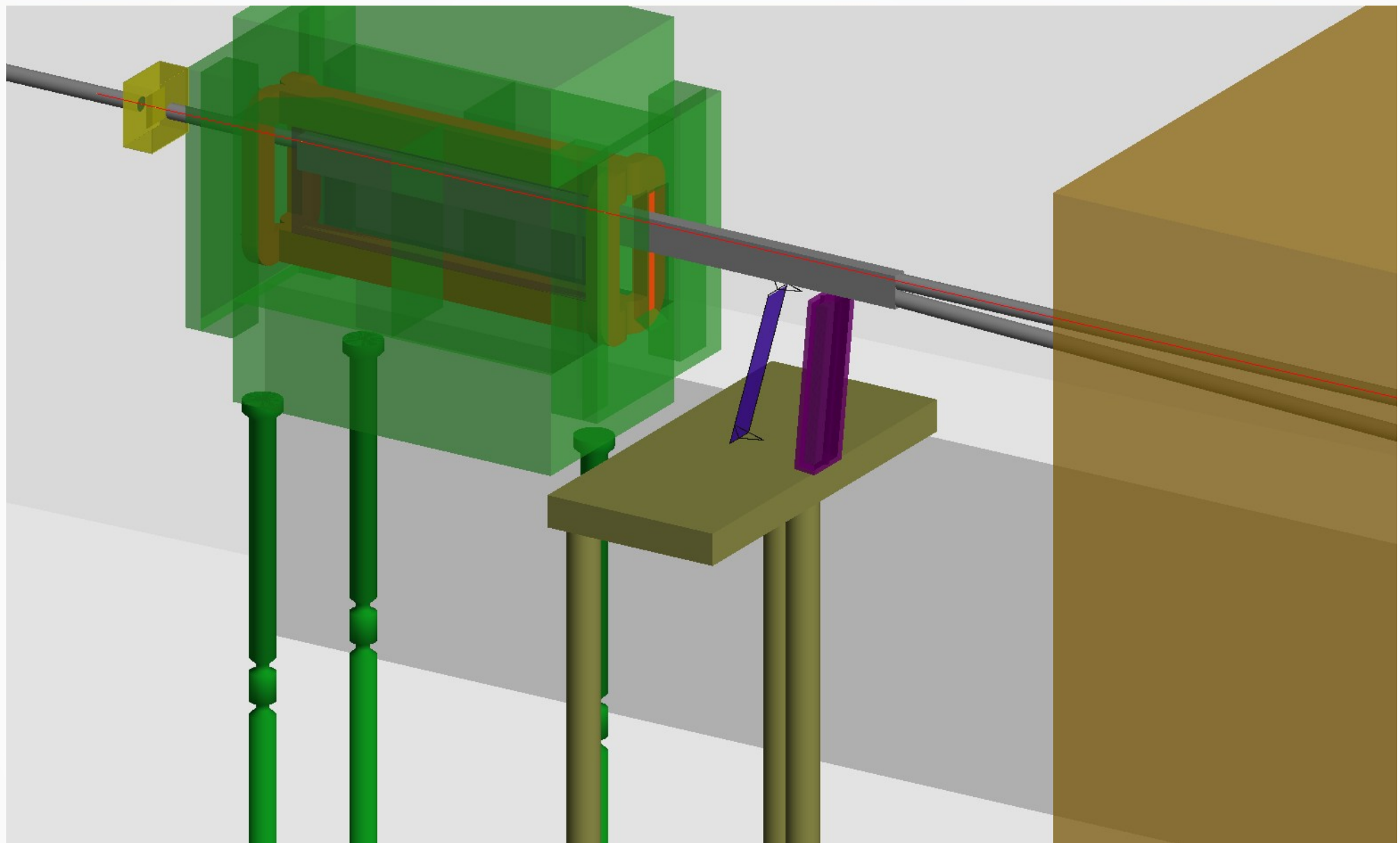
The logo for the LUXE experiment, featuring the word "LUXE" in a bold, blue, sans-serif font. The letter "X" is stylized with a white starburst or spark-like graphic in the center.

- Test triggering & image taking/storing function (should be easy enough)
- Observe image quality with varying screen thicknesses / camera resolution
- Observe ambient optical levels for feasible light environment of final experiment, through optical wavelength filter
- Observe image intensity for varying angles
- These require very little beamtime in terms of input electrons, but might require frequent access to TB area. Could be smart about this though: have 2 camera species taking data at once and change screen by remotely movable stage?
- Should share beamtime with Cerenkov. Of course the two systems are designed to be used always together...
- so we can monitor the effect of varying screen thickness on Cerenkov Signal (and also maybe case where Cerenkov device sits in front of the screen)



Backup





Brem. Electron detectors