

Physics and Applications of High Brightness Beams



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Establishing a Relativistic Ultrafast Electron Diffraction & Imaging Facility in the UK

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RUEDI (Relativistic Ultrafast Electron Diffraction & Imaging) is a proposed UK national facility in the which will deliver single-shot, time-resolved, imaging with MeV electrons, and ultrafast electron diffraction down to 10 fs timescales. RUEDI is being designed to enable the following science themes: dynamics of chemical change; materials in ex-treme conditions; quantum materials; energy generation, storage, and conversion; and in vivo biosciences. RUEDI is proposed to be built at STFC's Daresbury Laboratory in the UK. The Conceptual Design Review and Outline Instrument Design reports were published in November 2022 and summarised here, with a Technical Design Review report to follow in November 2023.

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