

**SCIENCE AT SINGLE PASS X-RAY FREE ELECTRON LASERS**

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**Abstract**

Based on recent experience gained at the Free Electron Laser in Hamburg (FLASH) operating in the spectral range of the VUV, the first free electron laser user facility world wide, the requirements for successful experiments will be discussed. This includes the interplay between experimentalists on one and accelerator physicists and operators on the other hand, the need for various diagnostic tools, samples and sample environment, as well as the need for new approaches for data analysis

**PAPER NOT  
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