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## Development of fast BBA for Diamond Light Source

*Monday, 8 May 2023 16:30 (2 hours)*

Beam-based alignment (BBA) is a standard tool at accelerators for aligning particle beams to the centre of quadrupole magnets. Traditional BBA measurements have been slow, potentially taking many hours for a whole machine. We have developed a tool, based on results previously reported at the ALBA synchrotron, that uses fast excitation of magnets to greatly speed up measurements. We show results of different measurement and analysis techniques, and comparison with the currently used slow method.

### Funding Agency

### Footnotes

### I have read and accept the Privacy Policy Statement

Yes

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