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Second generation Cherenkov diffraction radiation studies at Diamond Light Source

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Diamond Light Source (DLS) is a 3 GeV synchrotron facility in the UK, which has been a part of the Cherenkov diffraction radiation (ChDR) collaboration since 2017 and is now in its second phase of experiments. The current experiment aims to produce and test a one-dimensional beam position monitor (BPM) that utilizes ChDR at visible and near-infrared (NIR) wavelengths. This paper will cover the characterization of the ChDR setup, including: the changes observed to the ChDR signal due to both beam specific and target specific variations.

Footnotes

Funding Agency

Paper preparation format

LaTeX

Region represented

Europe

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