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Nuclear Instruments and Methods in Physics Research A 552 (2005) 292–328

NUCLEAR
INSTRUMENTS
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IN PHYSICS
RESEARCH
Section A

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Design and performance of the ABCD3TA ASIC for readout of silicon strip detectors in the ATLAS semiconductor tracker

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Received 10 May 2005; received in revised form 4 July 2005; accepted 4 July 2005

Available online 25 July 2005

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