

## **APV25 related publications**

### **Published papers (NIM)**

P. Barrillon *et al*, *Production Testing and Quality Assurance of the CMS Silicon Microstrip Tracker Readout Chip*, Nucl. Instr. & Meths. A (**in preparation**)

R. Bainbridge *et al*, *The Effect of Highly Ionising Events on the CMS Silicon Strip Tracker*, Nucl. Instr. & Meths. A (**in preparation**)

A. Candelori *et al*, *Radiation Hardness Qualification of the APV25 Chip Production for the CMS Experiment*, Nucl. Instr. & Meths. A (**in preparation**)

M. Friedl, T. Bauer, M. Pernicka, *Single Event Effects on the APV25 Readout Chip*, Nucl. Instr. & Meths A. 501 (2003) 189-193

E. Noah *et al*, *Single Event Upset Studies on the CMS Tracker APV25 Readout Chip*, Nucl. Instr. & Meths A. 492 (2002) 434-450

M. Friedl, T. Bauer, J. Hrubec, M. Krammer, M. Pernicka, "Performance of a CMS silicon strip detector module with APV25 readout", Nucl. Instr. & Meths. A. 488 (2002) 175-183

M. French *et al*, *Design and Results from the APV25, a Deep Sub-micron CMOS Front-End Chip for the CMS Tracker*, Nucl. Instr. & Meths A. 466 (2001) 359-365

M. Raymond *et al*, "The APV25 0.25  $\mu\text{m}$  CMOS readout chip for the CMS tracker", Nuclear Science Symposium Conference Record, 2000 IEEE, 9/113-9/118 (vol.2)

M. Huhtinen, F. Faccio, *Computational Method to Estimate Single Event Upset Rates in an Accelerator Environment*, Nucl. Instr. & Meths A. 450 (2000) 155-172

N. Bingefors *et al*, "A novel technique for fast pulse shaping using a slow amplifier at LHC", Nucl. Instr. & Meths. A. 326 (1993) 112-119

### **CMS Notes**

P. Barrillon *et al*, *Production Testing and Quality Assurance of the CMS Silicon Microstrip Tracker Readout Chip*, CMS Note (**in preparation**)

R. Bainbridge *et al*, *The Effect of Highly Ionising Events on the CMS Silicon Strip Tracker*, CMS Note (**in preparation**)

J. Bernardini *et al*, *Laser Studies in the Laboratory of the Effect of Highly Ionising Events on the APV25 Chip*, CMS Note (in preparation)

I Tomalin *et al*, *Test-Beam Analysis of the Effect of Highly Ionising Particles on the Silicon Strip Tracker*, CMS Note 2003/025

R. Bainbridge *et al*, *The Effect of Highly Ionising Events on the APV25 Readout Chip*, CMS Note 2002/038

M. Huhtinen, *Highly Ionising Events in Silicon Detectors*, CMS Note 2002/011

M. Friedl, T. Bauer, J. Hrubec, M. Krammer, M. Pernicka, "Performance of a CMS Silicon Strip Detector Module with APV25 Readout", CMS Note 2001/038

M. Friedl, T. Bauer, M. Pernicka, "Pion Irradiation of the APV25 Front-End Chip", CMS Note 2001/015

### **Proceedings**

M. Raymond *et al*, *APV25 Production Testing and Quality Assurance*, Proc. of the 8<sup>th</sup> Workshop on Electronics for LHC Experiments, CERN/LHCC/2002/034, 219-223

R. Bainbridge *et al*, *The Effect of Highly Ionising Events on the APV25 Readout Chip*, Proc. of the 8<sup>th</sup> Workshop on Electronics for LHC Experiments, CERN/LHCC/2002/034, 155-159

J. Fulcher *et al*, *Single Event Upset Studies on the APV25 Readout Chip*, Proc. of the 6<sup>th</sup> Workshop on Electronics for LHC Experiments, CERN/LHCC/2000/041, 260-264

E. Noah *et al*, *Total Dose Irradiation of a 0.25  $\mu\text{m}$  Process*, Proc. of the 6<sup>th</sup> Workshop on Electronics for LHC Experiments, CERN/LHCC/2000/041, 260-264

M. Raymond *et al*, *The CMS Tracker APV25 0.25  $\mu\text{m}$  CMOS Readout Chip*, Proc. of the 6<sup>th</sup> Workshop on Electronics for LHC Experiments, CERN/LHCC/2000/041, 130-134

W. Beaumont *et al*, *The CMS Tracker front-end and control electronics in an LHC-like beam test*, Proc. of the 6<sup>th</sup> Workshop on Electronics for LHC Experiments, CERN/LHCC/2000/041, 135-139

L. L. Jones *et al*, *The APV25 Deep Submicron Readout Chip for CMS Detectors*, Proc. of the 5<sup>th</sup> Workshop on Electronics for LHC Experiments, CERN/LHCC/1999/009, 162-166

G. Anelli *et al*, *Total Dose Behaviour of Submicron and Deep Submicron CMOS Technologies*, Proc. of the 3<sup>rd</sup> Workshop on Electronics for LHC Experiments, CERN/LHCC/1997/060, 139-143.

### **Theses** <http://www.hep.ph.ic.ac.uk/theses.html>

R. Bainbridge, *Influence of Highly Ionising Events on the CMS APV25 Readout Chip*, Doctoral thesis, University of London, 2004

E. Noah, *Radiation and Temperature Effects on the APV25 Readout Chip for the CMS Tracker*, Doctoral thesis, University of London, 2003

J. Fulcher, *Radiation Effects in Electronics for the CMS Tracking Detector*, Doctoral thesis, University of London, 2001

### **Web links**

The post-1998 LHC Electronic Workshop papers can be located at  
[http://ep-mgt-lecc.web.cern.ch/ep-mgt-lecc/LECC\\_web\\_pages/Previous\\_Workshops.htm](http://ep-mgt-lecc.web.cern.ch/ep-mgt-lecc/LECC_web_pages/Previous_Workshops.htm)