# Table of Contents

Welcome to the LHCb Outer Tracker Twiki pages

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome</td>
<td>1</td>
</tr>
<tr>
<td>Phone numbers</td>
<td>1</td>
</tr>
<tr>
<td>Documentation</td>
<td>1</td>
</tr>
<tr>
<td>LHCb internal documentation</td>
<td>1</td>
</tr>
<tr>
<td>Outer Tracker Publications</td>
<td>1</td>
</tr>
<tr>
<td>Ageing documentation</td>
<td>1</td>
</tr>
<tr>
<td>Gas Detector Literature</td>
<td>2</td>
</tr>
<tr>
<td>Useful Theses</td>
<td>3</td>
</tr>
<tr>
<td>Other</td>
<td>3</td>
</tr>
</tbody>
</table>
Welcome to the LHCb Outer Tracker Twiki pages

- Main Outer Tracker Homepage
- OT Online Twiki
- Outer Tracker Software Twiki
- Outer Tracker Technical Design Report
- OT mailing lists (2)

Phone numbers

- OT office point 8 +41 22 76 77868 (77868)
- OT piquet (day) +41 75 411 0956 (160956)
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- Antonio Pellegrino +41 75 411 2572 (162572)
- Nikhef Office +41 22 76 76309/74024 (76309/74024)
- Heidelberg Office +41 22 76 75826 (75826)

Documentation

LHCb internal documentation:

- Notes:
  - Public LHCb notes: Outer Tracker
  - Internal LHCb notes: Outer Tracker

- Talks:
  - CERN agenda: Tracking
  - CERN agenda: LHCb weeks

Outer Tracker Publications:

- D. van Eijk, et al., Radiation tolerance of the LHCb Outer Tracker, to be submitted to Nucl.Instrum.Meth. A
- Outer Tracker Performance Paper 2011 Status in svn

Ageing documentation:

- Reviews:
  - J.Va'vra, Review of Wire Chamber Aging NIM A252(1986)547
  - J.A. Kadyk, Wire chamber aging NIM A300(1991)436
- International Workshop on Aging Phenomena in Gaseous Detectors, DESY October 2001
  - Summaries of the sessions

- OT meeting LHCb week 8 March 2006
- Ageing Workshop 3 April 2006
- Ageing Workshop 17 May 2006
- OT meeting LHCb week 31 May 2006
- Ageing Workshop 12 July 2006
- OT meeting LHCb week 12 Sep 2006
- Ageing Discussion 13 Oct 2006
- Ageing Workshop 10 Nov 2006
- Heating Discussion 25 Jan 2007
- OT meeting LHCb week 14 Mar 2007

- S. Bachmann, 10th Vienna Conference on Instrumentation, 2004, The Straw Tube Technology for the LHCb Outer Tracking System
- M. Capeans et al., LHCb note 2004-050, LHCb Gas Based Detectors and Ageing
- S. Bachmann, LHCb note 2002-031, Specifications for the drift gas quality of the outer tracking system
- T. Akesson et al., NIM A515, p166, 2003, Aging studies for the ATLAS TRT
- F. Guarino et al., ATL-INDET 99-011, 1999, Outgassing studies of materials for the TRT construction

### Gas Detector Literature:

- **Books:**
  - W.Blum and L.Rolandì, Particle Detection with Drift Chambers, Springer Verlag, 1993

- **RichPublications:**
  - F.Sauli, CERN 77-09, 1977, Principles of Operation of Multiwire Proportional and Drift Chambers
  - H. Albrecht et al., NIM A541, p610, 2005, The Outer Tracker Detector of the HERA-B Experiment. Part II: Front-End Electronics
  - T. Akesson et al., NIM A522, p25, 2004, Operation of the ATLAS TRT under very high irradiation at the CERN LHC (gas choice)

- **Talks:**
  - Werner Riegler: LHCb Muon chambers (MWPC) - Engineering Design Review

- **Links:**
  - Particle Data Group: Particle Detectors
  - Particle Detector BriefBook
  - Useful references for Gas detectors (GSI)
  - Garfield
    - Examples
    - ATLAS TRT straws
  - Straw tube detectors - Introduction (Heidelberg)
Some more articles:
- M.Uman and G.Warfield, Phys.Rev. 120, 1542, 1960, Theoretical Study of the Electron Drift Velocity in Binary Gas Mixtures with Applications to Ar-CO2 and Ar-N2 Mixtures
- J.C. Armitage et al., NIM A271, p588, 1988, A study of the effect of methane and carbon dioxide concentration on gas amplification in argon based gas mixtures
- W.Hulsbergen et al., HERA-B-00-014, 2000, Calibration of HERA-B Outer Tracker Chambers in a Cosmic Ray Setup at NIKHEF

Useful Theses:
- Outer Tracker Theses in CDS (in title)
  - R.M. van der Eijk, PhD thesis, Univ. of Amsterdam, 2002 Track reconstruction in the LHCb experiment

Other:
- Seva Suvorov: Gas Processes in Outer Tracker Straws June 2005
- Electronic: Howto powerup the chips

-- NielsTuning - 2 Nov 2006

This topic: LHCb > LHCbOT