

Post Mortem of the Electronic Publication of the DIPAC 2003 Proceedings

Volker RW Schaa

Gesellschaft für Schwerionenforschung
mbH
Darmstadt, Germany

JACoW Team Meeting,
Trieste, Italy,
Dec 2003

DIPAC 2003
6th European Workshop on
Beam Diagnostics and Instrumentation
for Particle Accelerators

The workshop is a forum for the exchange of the latest experiences in the field of accelerator beam diagnostics and instrumentation world-wide.

It aims at active and efficient participation with a program of oral presentations, poster sessions and discussion groups.

An industrial exhibition and a visit to GSI's accelerator facility are also organised.

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**5 - 7 May, 2003
Mainz, Germany**
Info: www.gsi.de/dipac2003

hosted by **GSI**

DIPAC 2003, Mainz, Germany

- small conference (≈ 135 participants)
- 21 talks (10 invited, 11 contributed)
- 63 posters, 3 discussion sessions
- total of 87 papers
- small local organizing committee (8 people)
- editors during conference
 - Madeleine Catin, CERN
 - Volker RW Schaa, GSI

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same templates as EPAC2002
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 - tag file (information on authors, files, keywords, ...)
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Consequences for Editors

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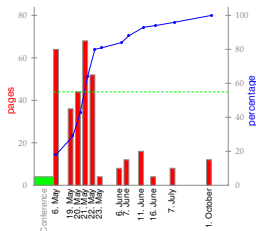
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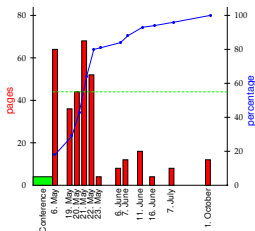
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- papers delivered at end of conference 87 %
but several authors promised updates



- one month after conference 92 % finalized

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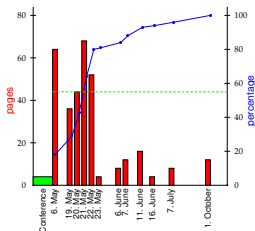
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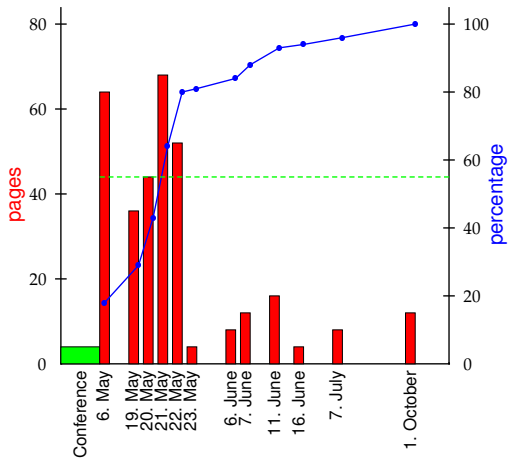
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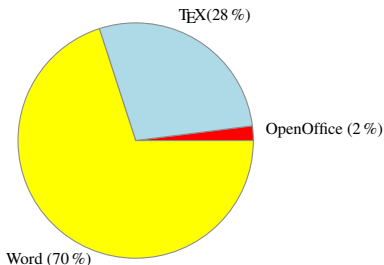
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Processing the Files



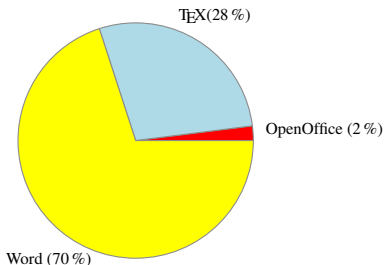
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- new on stage: "Open Office"
- no preparations have been made to process "OO" files
- distribution for DIPAC 2003



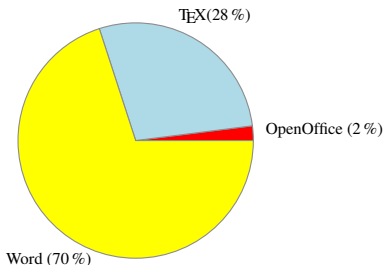
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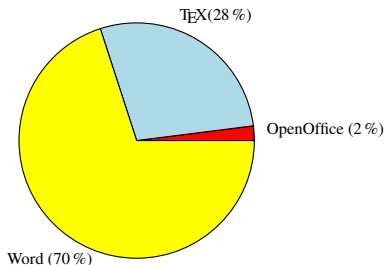
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Problems Encountered

- Format problems/template not used
- Slow graphics (sizes up to 50 Mb per picture)
- Font (not)embedding in Word (2 papers like braille)
- Type 3 font in \LaTeX
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Positive Side

- most pdf-files from authors were directly usable (⇒ PITStop)
- Type 3 fonts in \LaTeX
 - more and more installations are correct (\TeX Live)
 - processing with correct installation is sufficient
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What Authors provide

- Spelling names of fellow authors
- Institute's name
 - 3 possible writings for DESY
 - 4 found 😊
 - just one is correct
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Manpower

- 1 Mw abstract processing at conference
- 3 Mw writing scripts for WWW proceedings pages
- 2 Mw abstract processing after conference
- 8 Mw writing scripts for post-processing

more about this later

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Achievements

- Web pages and Proceedings are ready
- Proceedings volume is in print
- Web pages and proceedings honour special characters even for Math in abstracts
- Everything is in Unicode (UTF8)
- Proceedings volume in PDF completely with internal links
 - Table of Contents \Leftrightarrow Papers
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Outlook

Paper Title	Page
PM01 Use of Optical Transition Radiation Interferometry for Energy Spread And Divergence Measurements	89

- **R.B. Fiorito, A.G. Shkvarunets**

Institute for Research in Electronics and Applied Physics, University of Maryland, College Park, MD, USA

OTR interferometry (OTRI) has been shown to be an excellent diagnostic for measuring the rms divergence and emittance of relativistic electron beams when the energy spread $\Delta\gamma/\gamma$ is less than the normalized rms divergence $\sigma = \gamma\Theta_{rms}$. This is the case for most beams previously diagnosed with OTRI. To extend this diagnostic capability to beams with larger energy spreads, we have calculated the effects of all the parameters effecting the visibility of OTR interferences, V ; i.e. energy spread, angular divergence, the ratio of foil separation to wavelength ratio, d/λ and filter bandpass. We have shown that:

1. for a given $\Delta\gamma/\gamma$, the sensitivity of V to σ is proportional to the observation angle Θ_0 , the fringe order n and the ratio d/λ ;
2. the sensitivity of V to $\Delta\gamma/\gamma$ is independent of Θ_0 and n but is proportional to d/λ .

Outlook

DIPAC 2003 -- GSI, Mainz, Germany -
Proceedings
GSI, Mainz, Germany

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[Institute Index](#) | [Paper Status](#) |

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Uršič, R.

Paper Title	Page
PT04 Advantages Of Implementing Digital Receivers In Field Programmable Gate Arrays (FPGA) <ul style="list-style-type: none">• S. Bremec, R. Uršič, U. Mavrič I-Tech, Instrumentation Technologies, Solkan, Slovenia	175
PT05 Experience With Sampling Of 500 MHz Rf Signal For Digital Receiver Applications <ul style="list-style-type: none">• U. Mavrič, S. Bremec, R. Uršič I-Tech, Instrumentation Technologies, Solkan, Slovenia	178

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- DIPAC 2001 will appear on JACoW early next year using the same software
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- LINAC 2004, a joint DESY/GSI conference in August 2004 will use these scripts too

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