

Some New Scripts for the Wrapper

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Some Reasons for the New Scripts

- no (Oracle) database was used for submission, therefore no use of existing VB scripts,
- no experience adapting VBS to
 - a different DB structure, and
 - computer speed (John's warning),
- platform independency (Linux, OpenVMS, Windows),
- re-usability was an issue:
 - first DIPAC2003 and old DIPACs (OpenVMS & Windows),
 - later LINAC2004, (on Unix/Linux & Windows),
- open source approach,
- knowledge using PDFT_EX, PERL, XML, etc.

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My Approach

- starting from various input formats
 - combining it in a database with only needed fields,
 - using different import tools
- database export to XML
 - with P_ER_L, DB-, and XML-Modules
 - alternatives: "native" export (from Oracle 9_i Release 2, or Oracle 10_g)
 - Oracle SQLX
- read XML with script
- and transforms it to <html> and \pdfT_EX

Now a short excursion to XML and STRUCTURE. . .

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Now a short excursion to XML and STRUCTURE. . .

What kind of structure(s) do we need for a conference?

```
<conference name="...">
  <session name="...">
    <paper code="...">
      <institute ...>
        <author><name>...</><email>...</></author>
        (more »authors«)
      </institute>
      (more »institutes«)
    </paper>
    (more »papers«)
  </session>
  (more »sessions«)
</conference>
```

(more conferences??)

A *conference* consists of several *sessions*. And for a session you need talks (↪ *paper*) or posters (↪ *paper*).

```
<conference name="conference name">
  <session name="session name" abbr="abbreviation of session">
    <paper code="paper code id" abstract="yes/no">
      (xml »paper« sub-structure)
    </paper>
  </session>
  <session name="..." abbr="...">
    (xml »session« sub-structure)
  </session>
  (more »session« structures)
</conference>
```

A *paper* consists of several sub-structures: You need a *title* for your paper, and some *keywords*.

```
<paper code="paper id" abstract="yes/no">  
  <title[ note="optional title note"]>  
    paper title  
  </title>  
  <keywords>  
    (xml »keyword« structure)  
  </keywords>  
  <institute>  
    (xml »institute« structure)  
  </institute>  
</paper>
```

And there is always an *institute* you are working for, so you have to be defined as a part of it.

Now you have to define the *institute*, you are part of.
Finally your name appears in an *author* structure.

```
<institute name="name of institute"  
           abbr="institute (abbreviation)">  
  <author [ main="optional: "yes" for main author"  
          [ note="optional author note"]>  
    <name>(xml »name« structure)</name>  
    <email>email address</email>  
  </author>  
  (more »author« structures)  
</institute>
```

Even your *name* has some structure, and that comes now...

As the *author* preparing the paper, the key *main* is set to "yes".

```
<author main="yes"[ note="work funded by ..."]>  
  <name>  
    <initials>author's initials</initials>  
    <lastname>author's lastname</lastname>  
  </name>  
  <email>author's email address</email>  
</author>
```

And your *name* consists of *lastname* and *initials* (and maybe an *email address*).

Finally you have to define the *keywords*. Each entry consists of a single line with a given *keyword*.

```
<keywords>
  <keyword>keyword</keyword>
  <keyword>another keyword</keyword>
  (more xml »keyword« structures)
  ...
  (a maximum of »5« keyword structures)
</keywords>
```

Now you are done...

or even better, everything is done for you by a script from database entries!

What is the script doing?

1. It reads pdf-files and counts pages in each file,
2. reads XML, and generates <html> for
 - Session List,
 - Authors' List,
 - Keyword List,
 - Institute List
3. generates \pdfT_EX wrappers
 - for each single (raw) pdf-file,
 - for proceedings file,
4. writes command files for
 - generating pdf-files with Authors and Keyword information,
 - building of proceedings file(s).

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Actually built-in features:

- Web pages and proceedings honour special characters,
- Web pages are in Unicode (UTF8),
- All names with accented characters and umlauts,
- Math formulas (in abstracts) on web pages,
- Sorting author names is rule based (accented letters, umlauts, ...)

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OTR interferometry (OTRI) has been shown to be an excellent diagnostic for measuring the rms divergence and existence of near-DC electron beams when the energy spread $\Delta\gamma/V$ is less than the normalized rms divergence σ in r.f.— This is the case for most beams previously diagnosed with OTR. To extend this diagnostic capability to beams with larger energy spreads, we have calculated the effects of all the parameters affecting the visibility of OTR interference, V , i.e. energy spread, angular divergence, the ratio of hot separation to microbunch ratio, δ/λ , and filter bandwidth. The results show that:	
<ol style="list-style-type: none"> 1. for a given $\Delta\gamma/V$, the sensitivity of V to σ is proportional to the observation angle θ_0, the fringe order n, and the ratio δ/λ; 2. the sensitivity of V to $\Delta\gamma/V$ is independent of θ_0, and n but is proportional to δ/λ. 	

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• R. B. Fritzsche, A.G. Sidorov Institute for Research in Electronics and Applied Physics, University of Maryland, College Park, MD, USA		
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[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

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- (down)scale depending on size of crop/media/object/mask-box,
- setting of page numbers after count of all pages,
- inclusion of paper or "missing" note,
- config file with settings for directories, sort-rules, and any dependencies etc.

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- config file with settings for directories, sort-rules, and any dependencies etc.

\pdfT_EX{features}

Actually built-in features:

- printing of header and footer information,
- transfer of all meta-information into pdf-file,
- (down)scale depending on size of crop/media/object/mask-box,
- setting of page numbers after count of all pages,
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- inclusion of paper or "missing" note,
- config file with settings for directories, sort-rules, and any dependencies etc.

pdfT_EX: complete code for one paper

```
\documentclass[twoside]{book}
\usepackage[papersize={595pt,792pt}, body={ 483pt, 680pt},
            top=54pt, left=56pt, head=18pt, headsep=15pt, footskip=32pt]{geometry}
\usepackage{fancyhdr}\pagestyle{fancy}

\begin{document}
\pdfinfo{%
  /Title   (Characterisation of Fast Faraday Cups at the ELETTRA Linac)
  /Author  (M. Ferianis, S. Bassanese, G. D'Auria ELETTRA, Sincrotrone Trieste, Trieste, Italy;
           C. Deibele SNS, Spallation Neutron Source, Oak Ridge, TN, USA;
           M. Poggi INFN-LNL, Legnaro, Italy)
  /Subject (Proceedings DIPAC 2003 -- Mainz, Germany)
  /Keywords (diagnostics, electron, ELETTRA, instrumentation, linac)
}
\setcounter{page}{113}
\fancyhead[CE,CO]{\large\sffamily Proceedings DIPAC 2003 -- Mainz, Germany}%
\fancyfoot[RE,LO]{\large\sffamily Posters Monday}%
\fancyfoot[RO,LE]{\large\sffamily\thepage}%
\fancyfoot[CE,CO]{\large\sffamily PM10}
\IfFileExists{../papers-final/PM10.pdf}{%
  \includepdf[pages=-, scale=1.0,
             pagecommand={}\{../papers-final/PM10.pdf\}]%
  {\Huge\mbox{}}\vfill
  \centering\textsf{\textbf{PAPER NOT YET RECEIVED}}
  \vfill}
\end{document}
```

»geometry« helps to keep the tight frame

```
\documentclass[twoside]{book}
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             pagecommand={}\{../papers-final/PM10.pdf\}]%
  {\Huge\mbox{}}\vfill
  \centering\textsf{\textbf{PAPER NOT YET RECEIVED}}
  \vfill}
\end{document}
```

» fancyhdr« prints header and footer information

```
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  {\Huge\mbox{}}\vfill
  \centering\textsf{\textbf{PAPER NOT YET RECEIVED}}
  \vfill}
\end{document}
```


»pdftinfo« transfers all meta info into the pdf file

```
\documentclass[twoside]{book}
\usepackage[papersize={595pt,792pt}, body={ 483pt, 680pt},
            top=54pt, left=56pt, head=18pt, headsep=15pt, footskip=32pt]{geometry}
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  {\Huge\mbox{}}\vfill
  \centering\textsf{\textbf{PAPER NOT YET RECEIVED}}
  \vfill}
\end{document}
```

»pdfpages« imbeds the (raw) paper

```
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  {\Huge\mbox{}}\vfill
  \centering\textsf{\textbf{PAPER NOT YET RECEIVED}}
  \vfill}
\end{document}
```

»\IfFileExists« ensures that there is at least a paper with a note

```
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\usepackage[papersize={595pt,792pt}, body={ 483pt, 680pt},
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  \includepdf[pages=-, scale=1.0,
             pagecommand={}\{../papers-final/PM10.pdf\}]%
  {\Huge\mbox{}}\vfill
  \centering\textsf{\textbf{PAPER NOT YET RECEIVED}}
  \vfill}
\end{document}
```

»pagenumber« is set after checking/counting all pages

```
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  {\Huge\mbox{}}\vfill
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  \vfill}
\end{document}
```

»path« information are set in the config file

```
\documentclass[twoside]{book}
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  {\Huge\mbox{}}\vfill
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  \vfill}
\end{document}
```

»scaling« is determined by maximum of crop/media/mask-box sizes

```
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  {\Huge\mbox{}}\vfill
  \centering\textsf{\textbf{PAPER NOT YET RECEIVED}}
  \vfill}
\end{document}
```

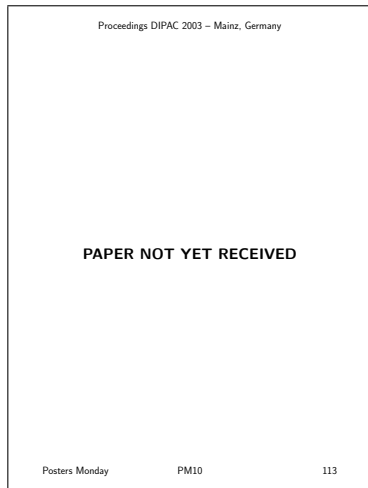
What happens, if you compile this T_EX script without the necessary pdf-file?

You only get the "missing" note.



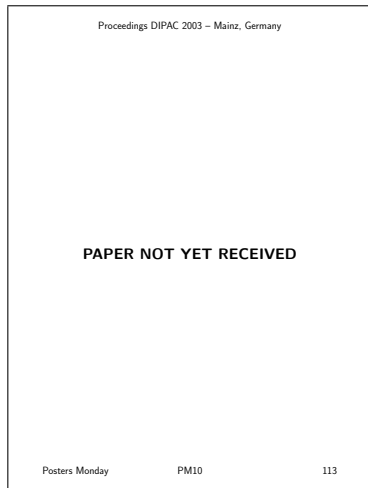
What happens, if you compile this T_EX script without the necessary pdf-file?

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You only get the "missing" note.

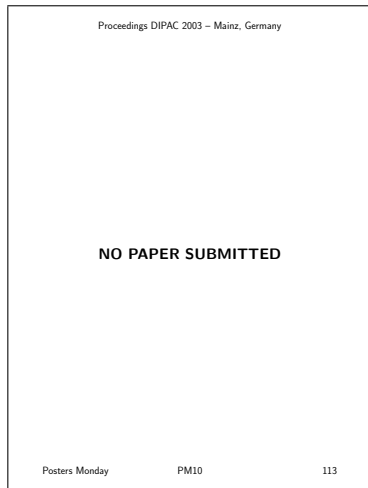


What happens, if you compile this T_EX script without the necessary pdf-file?

You only get the "missing" note.

The text is configurable in the config file.

And if it's there, you get. . .



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this T_EX script without the
necessary pdf-file?

You only get the "missing" note.

The text is configurable in the
config file.

And if it's there, you get. . .

Proceedings DIPAC 2003 – Mainz, Germany

CHARACTERISATION OF FAST FARADAY CUPS AT THE ELEETRA LINAC

M. Ferlanti, S. Bassanesi, G. D'Asaria, Sincrotrone Trieste, I-34012 Trieste, Italy
C. Deibel, SNS, Oak Ridge, TN, USA
M. Poggi, INFN-LNL, I-35020 Legnaro (PD), Italy

Abstract

Since several years, the Diagnostic Group at Laboratori Nazionali di Legnaro (LNL) has been designing Fast Faraday Cups (FFC) to be used on their Heavy Ion Accelerators. Latest developments in this field include a Stripline FFC, jointly developed with the Spallation Neutron Source (SNS). A collaborative partnership has been set-up between LNL and the ELEETRA Laboratory to fully characterise new FFCs, using the IGeV electron Linac in operation at the ELEETRA Synchrotron Light Source. Two FFCs, the stripline FFC, both at SNS, and a coaxial FFC, made at LNL, have been installed at ELEETRA who provided the wideband data acquisition and the remote control of the measurement. The first measurements, carried out using a 1GHz oscilloscope, have allowed the proper set-up of the instrument remote control as well as a low jitter triggering system, synchronous with the injected electron. Wideband measurements were performed using oscilloscopes with bandwidths up to 2GHz, whereas the bandwidth of the Stripline FFC has been estimated to be roughly 20GHz. A complete set of tests was carried out both on the coaxial FFC and on the stripline FFC. Moreover, thanks to the information provided by these wideband measurements, the Linac working point has been further optimised as well as the injection process into the ELEETRA Storage Ring.

INTRODUCTION

The ELEETRA Linac [1] is in operation since 1992 as injector of the ELEETRA Storage Ring, providing a 100keV electron beam. Since 1990 [2] the Linac has also been used periodically as a "test facility" both for material irradiation experiments and for testing diagnostic equipment [3]. The characterisation of the new Fast Faraday Cup was carried out in the frame of this second activity.

The FFCs, designed to have information on beam temporal structure, have been developed at LNL for several years to measure the bunch length of ion beams. The experience gained in that field also yielded a collaboration with the SNS project at Oak Ridge, where a strip line FFC has been developed to measure the bunch length out of the low energy (E<=2.5MeV of H⁺) section of the machine.

The ELEETRA Linac bunching structure

The bunching section of the ELEETRA Linac, shown in Fig. 1, includes:

- a 500MHz Sub-Harmonic Chopper (TM₀₁₀ deflecting cavity)
- a 500MHz Brancher (TM₀₁₀ pill box cavity)
- 3GHz Pre-Buncher (TM₀₁₀ pill box cavity)
- 3GHz Brancher (0.4m long 2/3rd SW accelerating section)



Figure 1: drawing of the ELEETRA Linac pre-injector G-Class, C-Chopper, PB5-Pre-buncher @500MHz, PB3-Pre-buncher @1GHz, B-Brancher @3GHz

With a proper setting of the parameters (amplitude and phase of the cavities) this configuration allows to select and fill a pure 500 MHz bucket of the Storage ring, in single bunch mode. This means that at the Linac, exit all the charge is compressed in less than 1 nsec with a 3 GHz fine structure of the beam ($\sigma = 3$ 5-femto-nsec-bunches, spaced by 330 ps). As we have observed with these measurements, changing the relative phases between the 500MHz cavities and the 3GHz ones, it is possible to change the number and the relative amplitude of the 5-fermi-nsec-bunches.

THE FAST FARADAY CUPS

The FFC station, built at LNL and holding the two FFCs, has been installed on the Linac User port at IGeV (Fig. 2). An already available fluorescent screen located upstream the station has been used for alignment purposes and for checking the electron beam focusing.

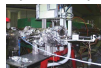


Figure 2: view of the FFC station installed on the Linac User port at IGeV. The cables of the coaxial FFC is visible in the foreground. On the right hand side, there is the linear transition stage of the Stripline FFC.

Summary

- the scripts are usable, but only tested on DIPAC related conference papers and settings,
- translation of special character to Unicode has to be extended
 - actually 65 accented letters,
 - 17 special characters,
 - 113 math symbols, and
 - 39 Greek letters.
- generating wrappers for pdf-files and Web pages is one script at the moment (if you want one, you get the other free)
- I'm willing to maintain and extend the scripts
- <advertisement>
 everything runs with the new T_EX Collection Set
</advertisement>

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