

Editing with Acrobat/Pitstop

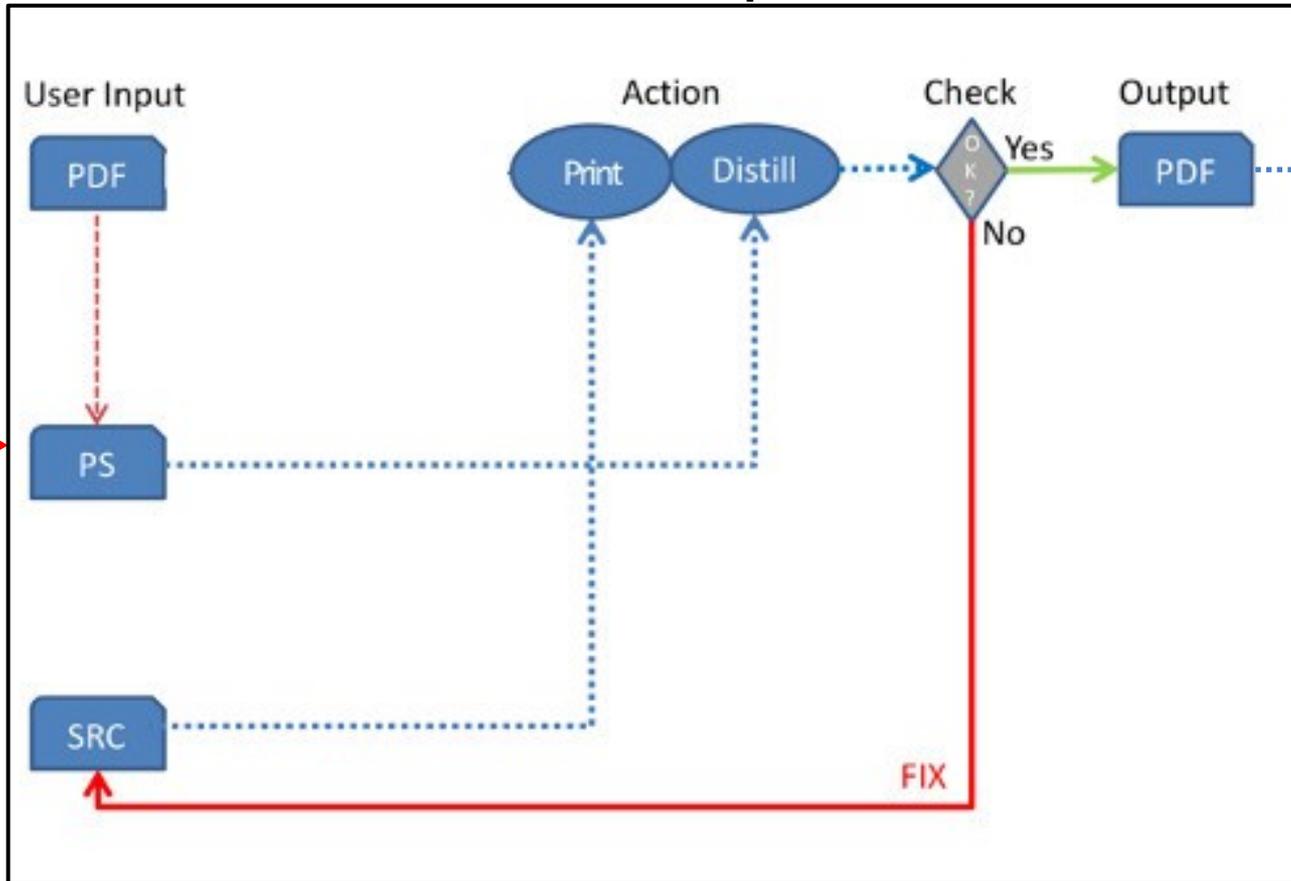
WEBA2 – Raphael Mueller, GSI

- Editing
 - Pre-Processing
 - Process / Verify
 - Post-Processing
- Quality Assurance
- Tips & Tricks
- Questions

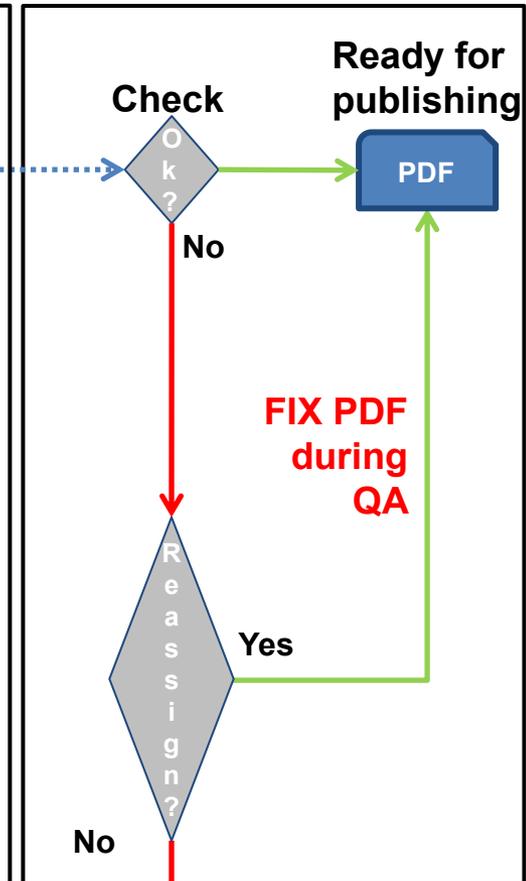
- Editing
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Wiki: for Organizers > During the Conference > Proceedings Production > Processing Papers

Process Paper



QA



Paper is sent back to the editor to correct it

Wiki: for Organizers > During the Conference > Proceedings Production > Processing Papers > Basic Procedure

- Pre-Processing
 - Request a paper from SPMS
 - Download PDF or PS
 - If not available download the source and destill it (-> yellow dot)
 - Save as PS and (re)distill to PDF

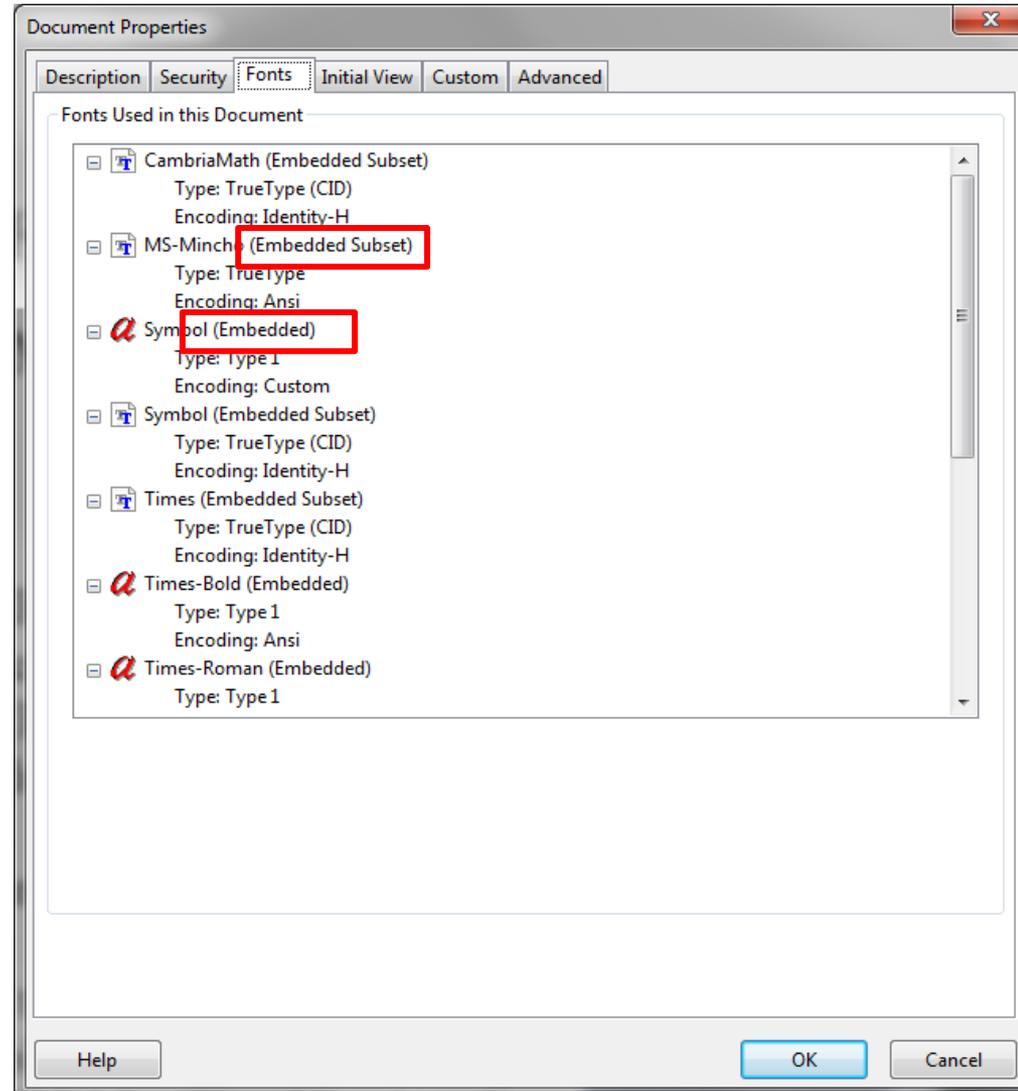
Wiki: for Organizers > During the Conference > Proceedings Production > Processing Papers > Basic Procedure

- **Process / Verify**
 - Check fonts
 - Check page number
 - Check readability and display time
 - Apply the JACoW Media Box
 - Check margins
 - Check page size
 - Check formatting and „Common Author Oversights“
 - Fix the problems
 - If it takes you more than one hour to fix it, send it back to the author

Basic Processing

Check Fonts

Press Ctrl+D
in Acrobat and open
the „Fonts“ Tab.

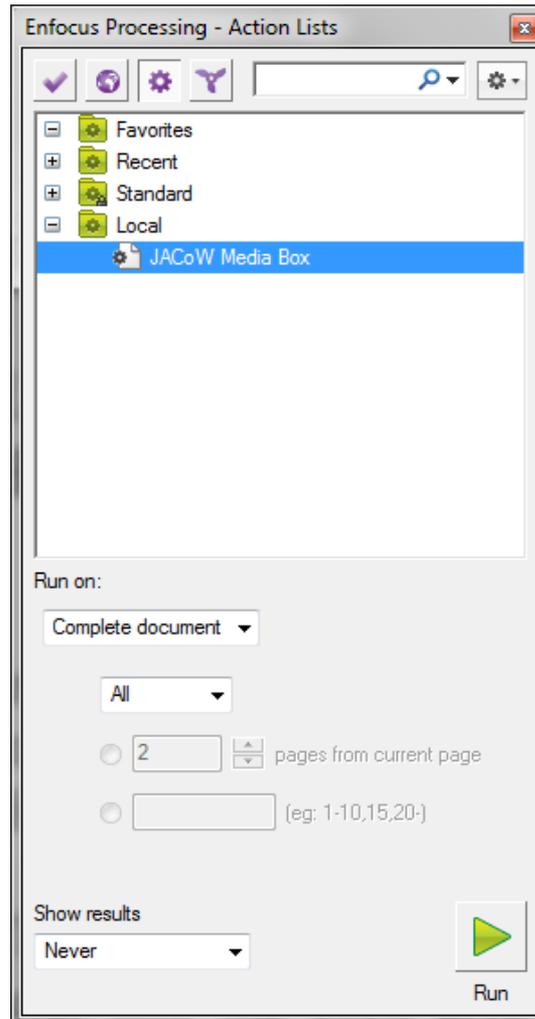


Basic Processing

Apply the JACoW Media Box

Press Ctrl+Alt+A
in Acrobat and open
the PitStop Action List.

Select the
JACoW Media Box and
execute it by clicking
„Run“.



Basic Processing

Check Margins & Page Size

Wiki: for Organizers > During the Conference > Proceedings Production > Processing Papers > Paper Measurement Cheat-Sheet

If Acrobat is configured properly...

Press Ctrl+U in Acrobat and activate the „Grid“. Check that the text stays inside of the grid.

Check the page size at the bottom of the window: it should be 595 x 792 pt.

EFFECTS OF GRIDS IN DRIFT TUBES*

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Abstract
In 2011, we upgraded a 201 MHz buncher in the proton injector for the alternating gradient synchrotron (AGS) – relativistic heavy ion collider (RHIC) complex. In the buncher we installed four grids made of tungsten to improve the transit time factor. The grid installed drift tubes have 32 mm of inner diameter and the each grid consists of four quadrants. The quadrants were cut out precisely from 1mm thick tungsten plates by a computerized numerically controlled (CNC) wire cutting electrical discharge machining (EDM). The 3D electric field of the grid was simulated.

MECHANICAL STRUCTURE OF THE GRIDS

Since the grids are exposed to high current proton beams, the material stands for high temperature condition in vacuum. We used tungsten carbide. A photo of the grid is shown at Fig. 2.

BACKGROUND

In 2010, we modified a 750 keV medium energy beam transport (MEBT) line of proton injector of AGS RHIC complex in Brookhaven National Laboratory (BNL)[1,2]. The MEBT has four quadrupole magnets, four steering and the buncher within 700 mm where is between the radio frequency quadrupole (RFQ) and drift tube linear accelerator (DTL). The installed buncher in 2010 had a half wavelength π mode resonant structure and was machined from a single aluminum block. The inner surface was treated by Alodrom 1000 and the treatment worked well to suppress the secondary electron emission efficiency. The buncher was driven by a 5 kW of RF power amplifier, however the beam transmission measurement indicated that more RF voltage of the buncher might improve the longitudinal matching condition between the RFQ and DTL. Then we built and installed a new high Q copper made buncher to gain a better effective shunt impedance with a newly designed grids. The buncher has two gaps and four grids were installed. The grids help to improve the transit time factor (TTF), however they introduce non-linear field. In this report, we describe simple two-dimensional (2D) analysis results based on a three-dimensional (3D) field simulation. Due to the change of the material, the loaded Q value of the buncher was improved from 2120 to 3600 and the shunt impedance reached 2.0 M Ω . The installed buncher at the MEBT section is shown at Fig. 1.



Figure 1: The new copper buncher.



Figure 2: The grid.



Figure 3: The grid in a mockup drift tube.

The inner diameter of the surrounding circle is 32 mm which fits to inner surface of the drift tubes. The drift tubes have grooves those are 1 mm depth and 1 mm width to accommodate grids. The grid consists of four quadrants connected by phosphor bronze springs. The each quadrant was machined from single 1mm thick tungsten plate.

*Work supported by US DOE. #okamura@bnl.gov

Basic Processing

Check Marings & Page Size

Wiki: for Organizers > During the Conference > Proceedings Production > Processing Papers > Paper Measurement Cheat-Sheet

A Paper measurement Cheat-Sheet was provided by Volker that shows all the measurements.

PREPARATION OF PAPERS FOR JACoW CONFERENCES*

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Abstract

Many conference series have adopted the same standards for electronic publication and have joined the Joint Accelerator Conference Website (JACoW) collaboration for the publication of their proceedings. This document describes the common requirements for the submission of papers to these conferences. Please consult individual conference information for page limits, method of electronic submission, etc. It is not intended that this should be a tutorial in word processing; the aim is to explain the particular requirements for electronic publication at these conference series.

SUBMISSION OF PAPERS

Each¹ author should submit the PDF or PostScript and all of the source files (text and figures), to enable the paper to be reconstructed if there are processing difficulties.

MANUSCRIPTS

Templates are provided for recommended software and authors are advised to use them. Please consult the individual conference help pages if questions arise.

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General Layout

These instructions are a typical implementation of the requirements. Manuscripts should have:

- Either A4 (21.0 cm × 29.7 cm; 8.27 in × 11.69 in) or US letter size (21.59 cm × 27.9 cm; 8.5 in × 11 in) paper.
- Single-spaced text in two columns of 82.5 mm (3.25 in) with 5.3 mm (0.2 in) separation. Newer versions of Word (2007, 2010) have a default spacing of 1.5 lines; authors must change this to 1 line.
- The text located within the margins specified in Table 1 to facilitate electronic processing of the PDF file.

Table 1: Margin Specifications

Margin	A4 Paper	US Letter Paper
Top	37 mm (1.46 in)	0.75 in (19 mm)
Bottom	19 mm (0.75 in)	0.75 in (19 mm)
Left	20 mm (0.79 in)	0.79 in (20 mm)
Right	20 mm (0.79 in)	1.02 in (26 mm)

Figure 1: Layout of papers.

Fonts

In order to produce good Adobe Acrobat PDF files, authors using a L^AT_EX template are asked to use only Times (in roman (standard), bold or italic) and symbols from the standard set of fonts. In Word use only Symbol and, depending on your platform, Times or Times New Roman fonts in standard, bold or italic form.

Title and Author List

The title should use 14 pt bold uppercase letters and be centred on the page. Individual letters may be lowercase to avoid misinterpretation (e.g., mW, MW). To include a funding support statement, put an asterisk after the title and a footnote at the bottom of the first column on page 1; in L^AT_EX use \thanks.

The names of authors, their organisations/affiliations and mailing addresses should be grouped by affiliation and listed in 12 pt upper and lowercase letters.

Basic Processing

Formatting and „Common Author Oversights“

Wiki: for Authors > Templates

for Authors > Formatting Citations

for Organizers > During the Conference > Proceedings Production > Processing Papers > Common Author Oversights

- Compare with the template
 - <http://www.jacow.org/index.php?n=Authors.MSWord>
 - <http://www.jacow.org/index.php?n=Authors.LaTeX>
 - <http://www.jacow.org/index.php?n=Authors.OpenDocument>
- Check „Formatting Citations“
 - <http://www.jacow.org/index.php?n=Authors.FormattingCitations>
- Check „Common Author Oversights“
 - <http://www.jacow.org/index.php?n=Editors.CommonAuthorOversights>

Wiki: for Organizers > During the Conference > Proceedings Production > Processing Papers > Basic Procedure

- **Post-Processing**
 - Print, check visually
 - Write down Paper ID, initials and time on the corner of the paper
 - Dot the paper (or use stamping tools)
 - Green
 - Nothing is wrong
 - No further action required
 - Yellow
 - Source file changed
 - Author should proofread
 - Red
 - Extensive work necessary, author should fix and resubmit
 - Author should come to the proceedings office
 - Upload ALL processed files to SPMS
 - Use SPMS to set status and error codes

- Editing
 - Pre-Processing
 - Process / Verify
 - Post-Processing
- Quality Assurance
- Tips & Tricks
- Questions

Wiki: for Organizers > During the Conference > Proceedings Production > Processing Papers > Quality Assurance

- From the „Papers to QA“ bin take a printed paper that you did not process
- Download the PDF using the editor QA interface
- Check the requirements (again)
 - Technical (fonts, page size, performance, etc.)
 - General Appearance (Common Author Oversights)
- Check carefully and correct in SPMS
 - Title
 - Number of pages
 - Author list
 - See also in the Wiki:
for Organizers > During the Conference > Proceedings Production
> Cross-Checking Authors/Titles

Wiki: for Organizers > During the Conference > Proceedings Production > Processing Papers > Quality Assurance

- If everything is Ok
 - Select QA Ok and submit
- If anything is NOT Ok
 - If the PDF can be fixed
 - Fix
 - Upload
 - Select QA Ok
 - If it can not be fixed
 - Select QA failed
 - Choose original editor and explain the problem or
 - Choose to reassigning the paper to yourself and fix it

- Editing
 - Pre-Processing
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- How to ...
 - paint over unintentional objects with Pitstop
 - move objects with Pitstop
 - create a quick run for the JACoW media box
 - use advanced search for checking reference and figure numbering
 - display the toolbar buttons in Acrobat X
 - remove/hide hyperlinks using PitStop
 - scale items with PitStop
 - add a missing footnote separator
 - embed or change fonts using PitStop
 - convert an EPS/PS to a bitmap image using GIMP

- Editing
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- PitStop Shortcuts
 - http://www.enfocus.com/manuals/ReferenceGuide/PP/12/enUS/en-us/common/ppr/reference/re_shortcuts.html
- Acrobat Shortcuts
 - <http://helpx.adobe.com/acrobat/using/keyboard-shortcuts.html>

- Remember:
Questions are guaranteed in life, answers are not ...

