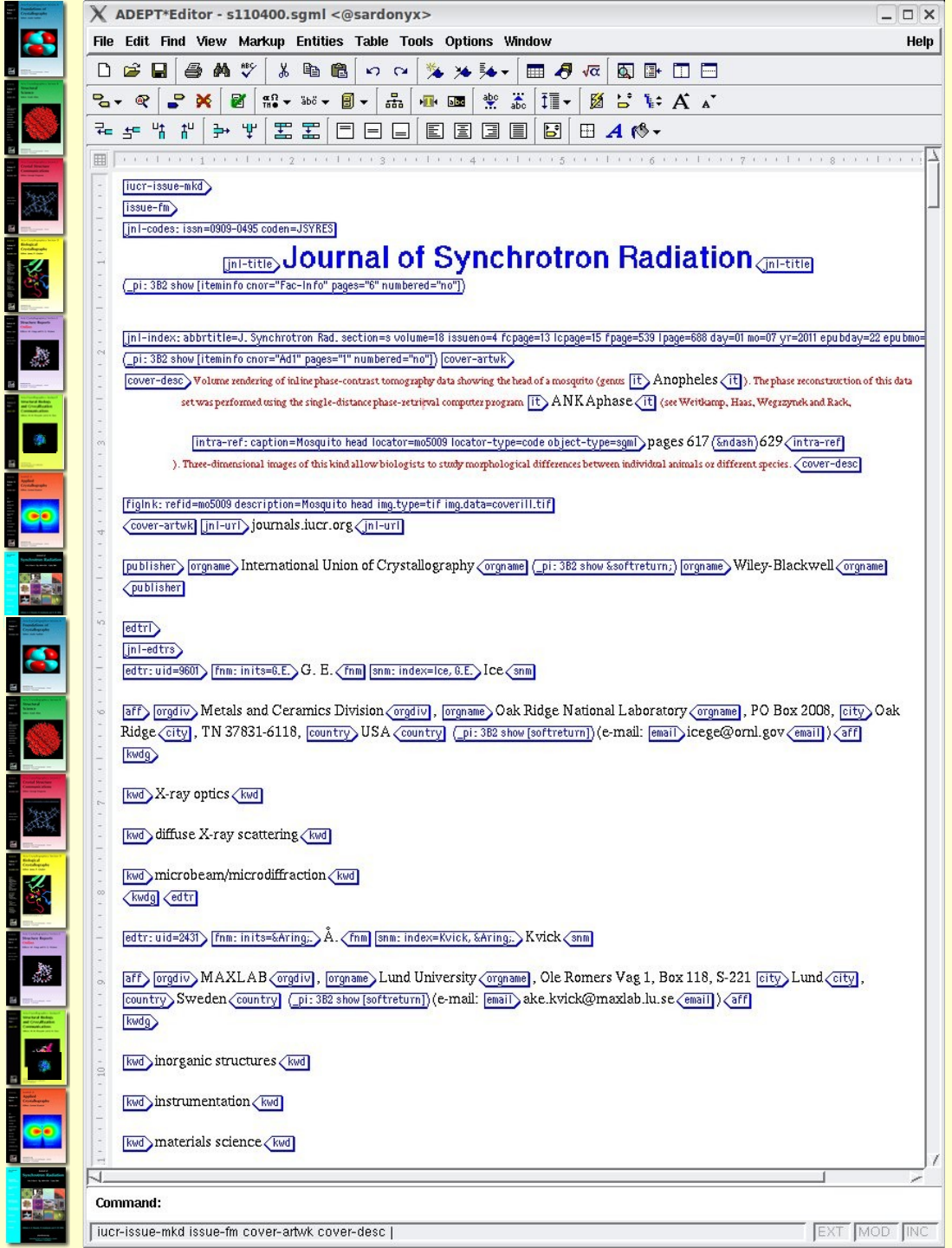
2013
international year of crystallography

Journal production and printing

Tony Weight

Crystallography Journals Online



Contents of the `issue instance' file

- Issue information
  - date of publication
  - volume number
  - page range *etc*

- Inside front-cover information
  - front cover figure caption
  - IUCr staff list
  - editor/co-editor details *etc*

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Contents of the `issue instance' file

- Inside back-cover information
  - subscription enquiry details
  - copyright information
  - advertising contact details *etc*

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Contents of the `issue instance' file

- List of papers in issue
  - in printing order
  - indicating paper properties
    - number of pages
    - position of colour pages
    - number of offprints

- Meetings information
  - Conferences
  - Symposia
  - Workshops *etc*

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Putting an issue online

- An in-house online conversion program

  - Converts SGML to HTML

  - Adds hypertext links using the information in the SGML

  - Creates links to internal and external references

  - Converts TeX equations to GIFs

  - Converts Tiff figures and schemes to GIFs and JPEGs

  - Creates/updates contents pages

- Papers checked online on staging server before going live

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Putting an issue online

- Programs are also run to

  - Create metadata and send to abstracting and indexing services

  - Send issue to other online journal hosts

  - Send out e-mail alerts

  - Send out electronic reprint notifications

- Journals are published online ahead of the print issue

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Factors determining the order of papers in an issue

- Paper category
- Series of papers
- Colour pages

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Issue S110500

Plan produced 8/8/11 17:19

xi Fac-Info C	xii Fac-Info C	xiii Fac-Info C	xiv Fac-Info C	xv Fac-Info C	xvi Fac-Info C	xvii Contents	xviii Contents	xix Contents	xx Adl	689 KV5094	690 C	691	692 C	693 C	694
695	696	697 IE5054	698	699	700	701	702 GF5037	703	704	705	706	707	708 BF5038	709	710
711	712	713	714	715	716	717 WA5020	718	719	720	721	722	723 OT5639	724	725	726
727	728 OT5644	729	730	731	732	733 VV5018	734	735	736	737	738	739	740	741	742
743 HF5186	744	745	746	747 OT5646 50	748 50	749 50	750 50	751 50	752 50	753 M-O5017	754	755	756	757	758
759 C	760	761 KT5029	762 C	763 C	764	765 KV5096	766	767	768	769	770	771 C	772	773 IE5055	774 C
775	776	777 C	778 C	779 C	780	781	782 MS5082	783	784	785 C	786 C	787 C	788 C	789	790 VE5007
791	792 C	793 C	794 C	795 C	796	797 C	798 C	799 C	800 C	801	802 IE5049	803	804 C	805 C	806 C
807	808	809	810	811 HF5185	812	813	814	815	816 HI5623	817	818 PF0086	819 ME0449	820	821	822 Mast

Issue plan

- Each box represents a page of the issue
- Red boxes represent colour pages
- Each row of 16 pages is a `16-page signature'

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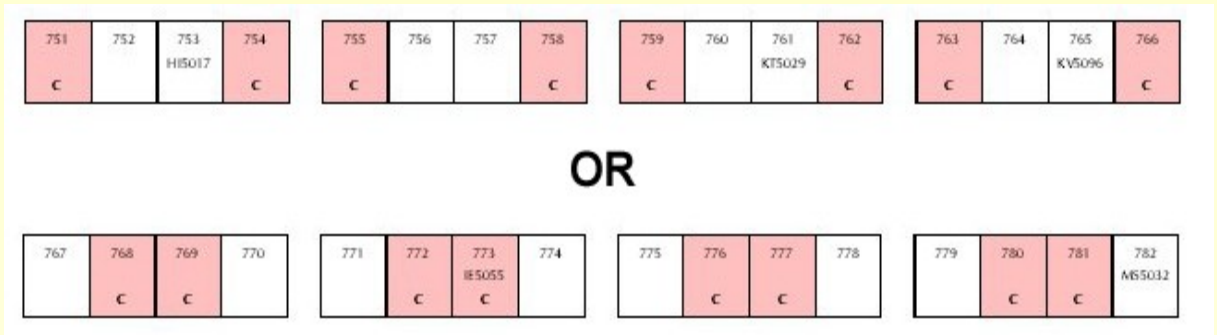
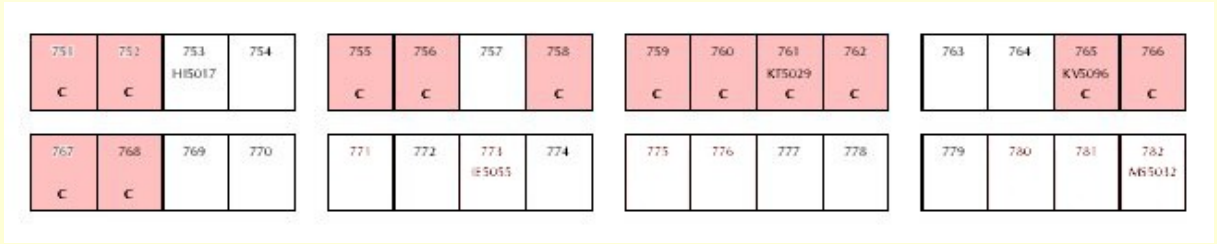
Issue plan



- `Single-sided arrangement'
  - any colour pages must fall into either of these patterns



- `Double-sided arrangement'
  - colour falling into other patterns

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Issue plan

- More economical

- Many black and white sections

- Minimal colour

- Colour fits a single-sided arrangement

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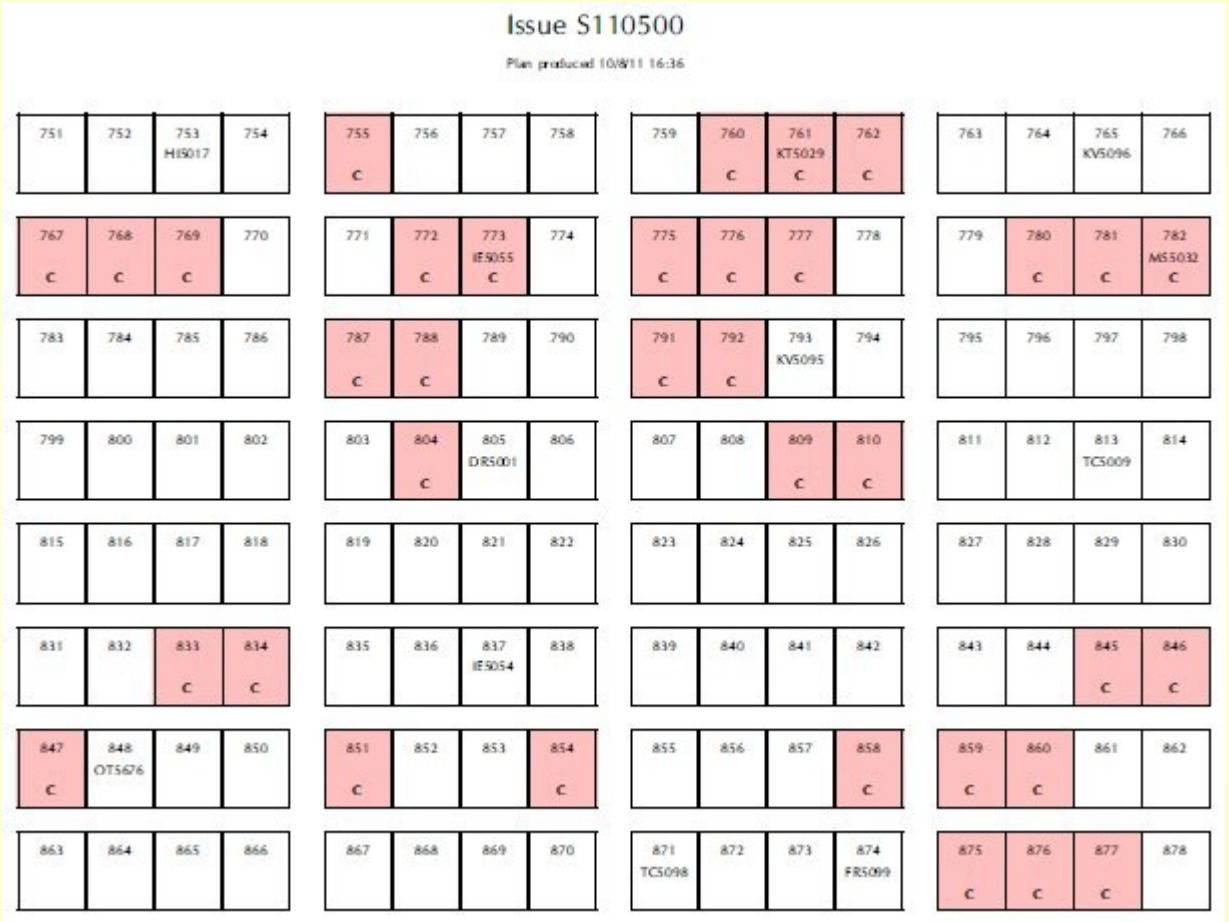
Issue plan



- Less economical

- Few black and white sections

- Lots of colour

- All colour falls into a double-sided arrangement

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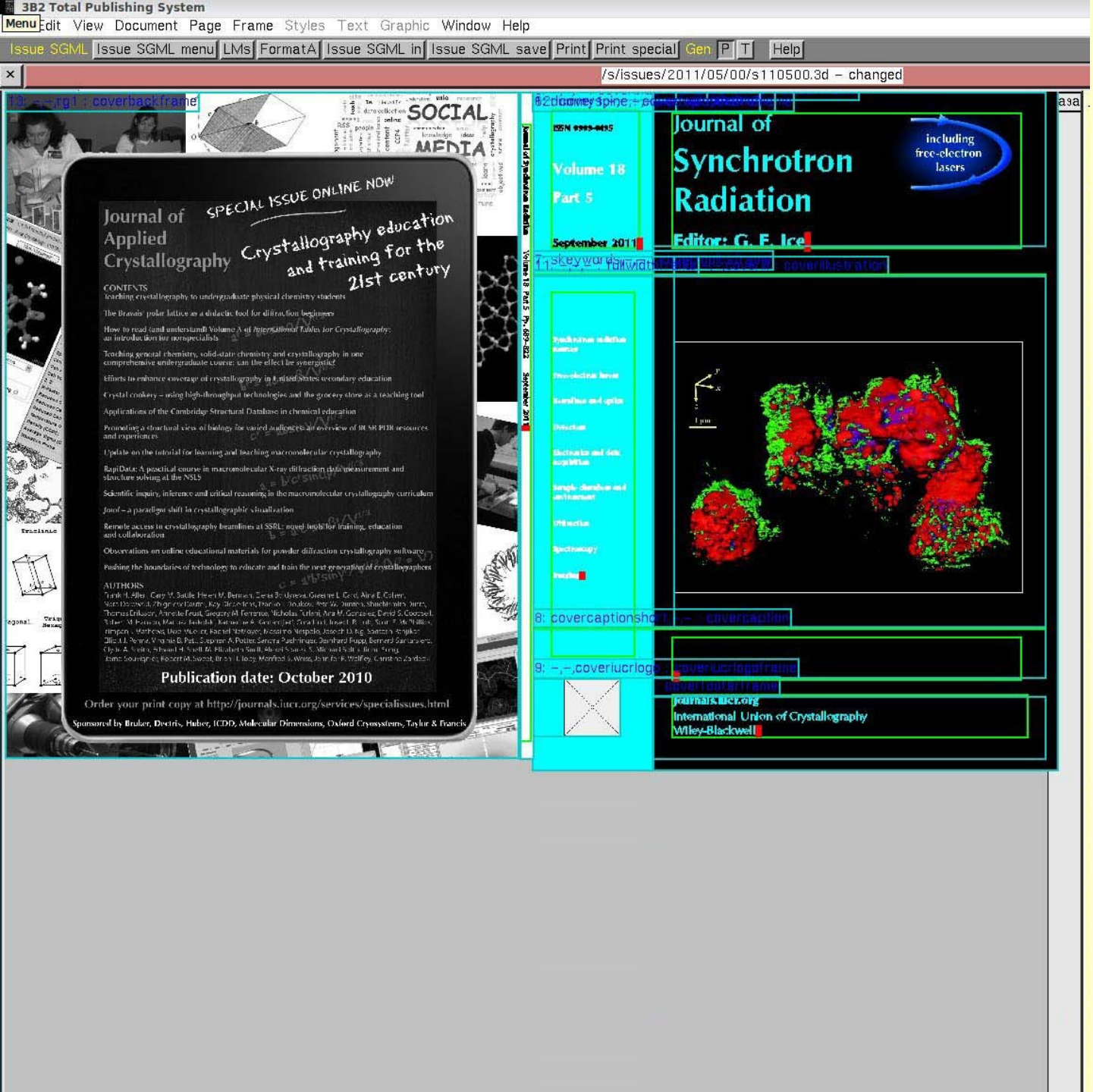

Issue in 3b2

- The issue instance is imported into 3b2 to create covers non-article pages

- Outside cover
  - back, spine and front

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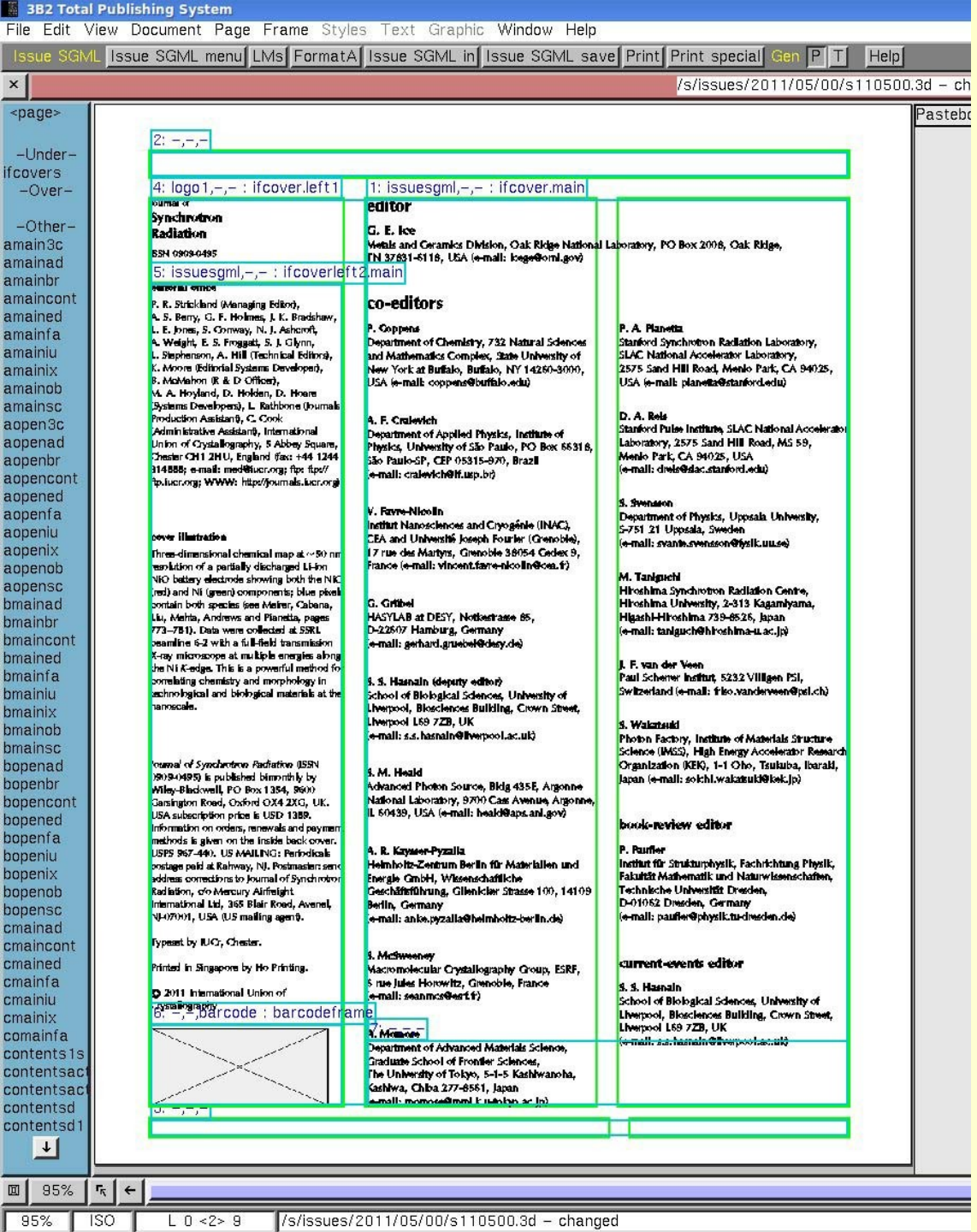
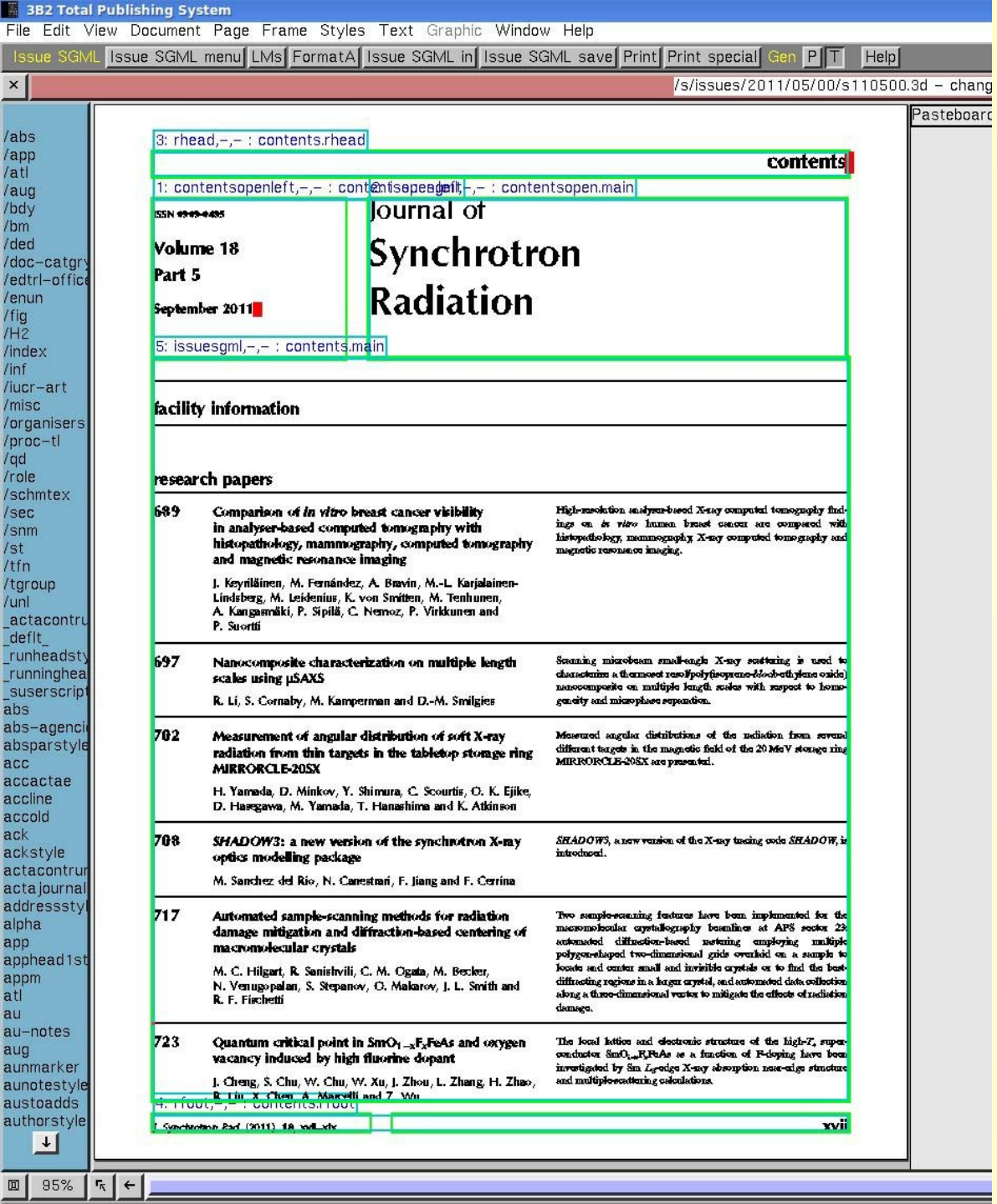


Issue in 3b2

- Inside front cover

Crystallography Journals Online



Issue in 3b2

- Contents pages

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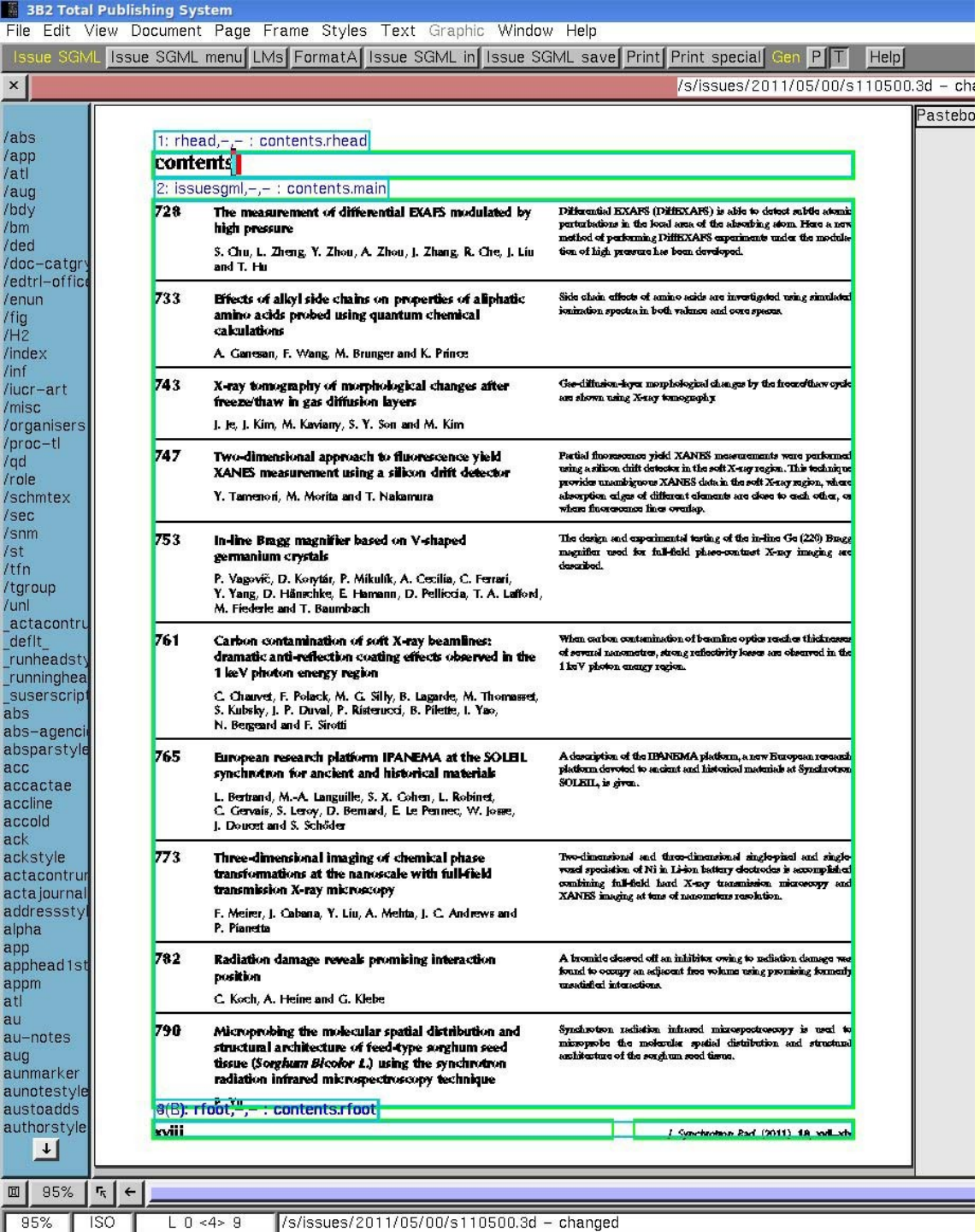
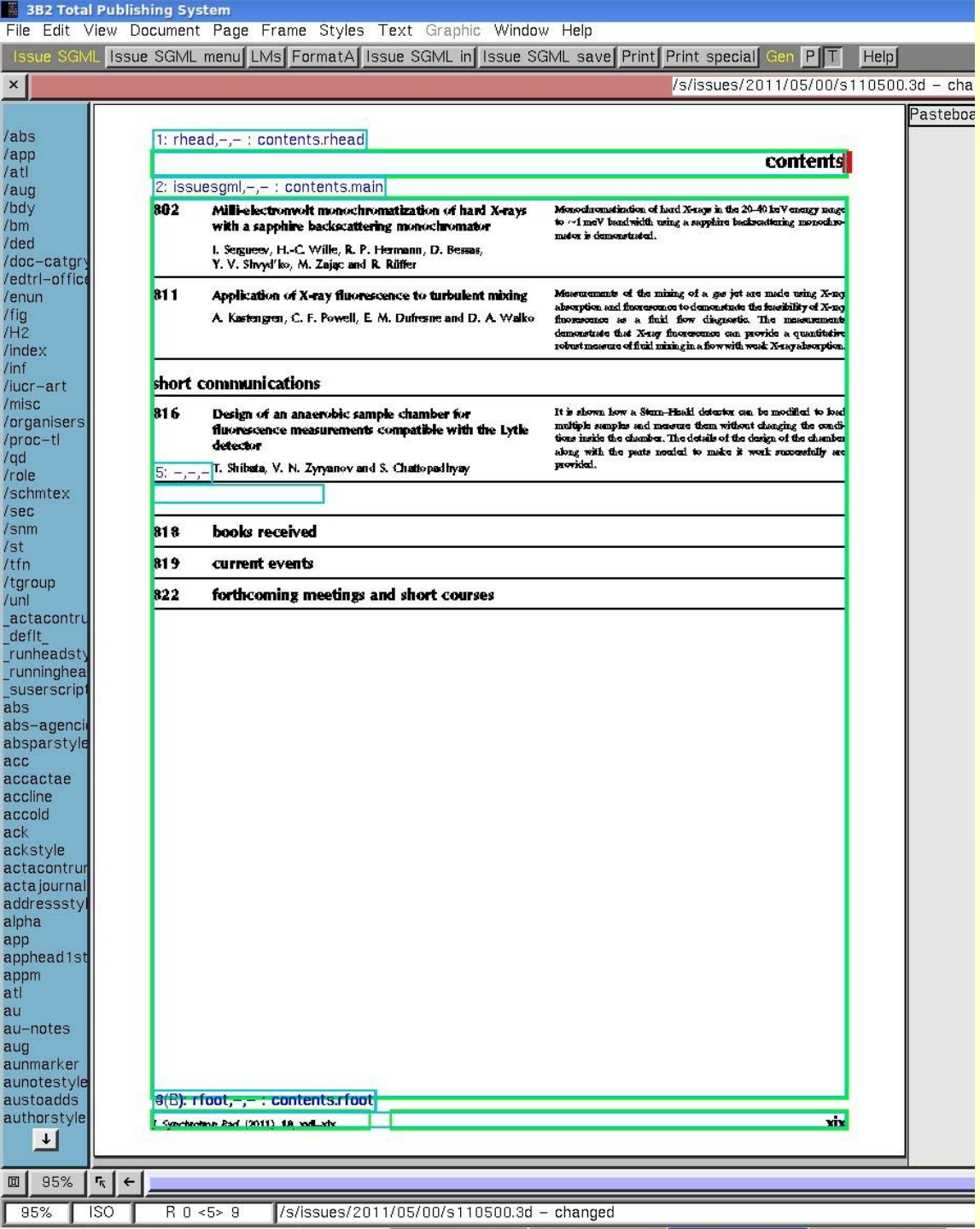


Issue in 3b2

- Contents pages

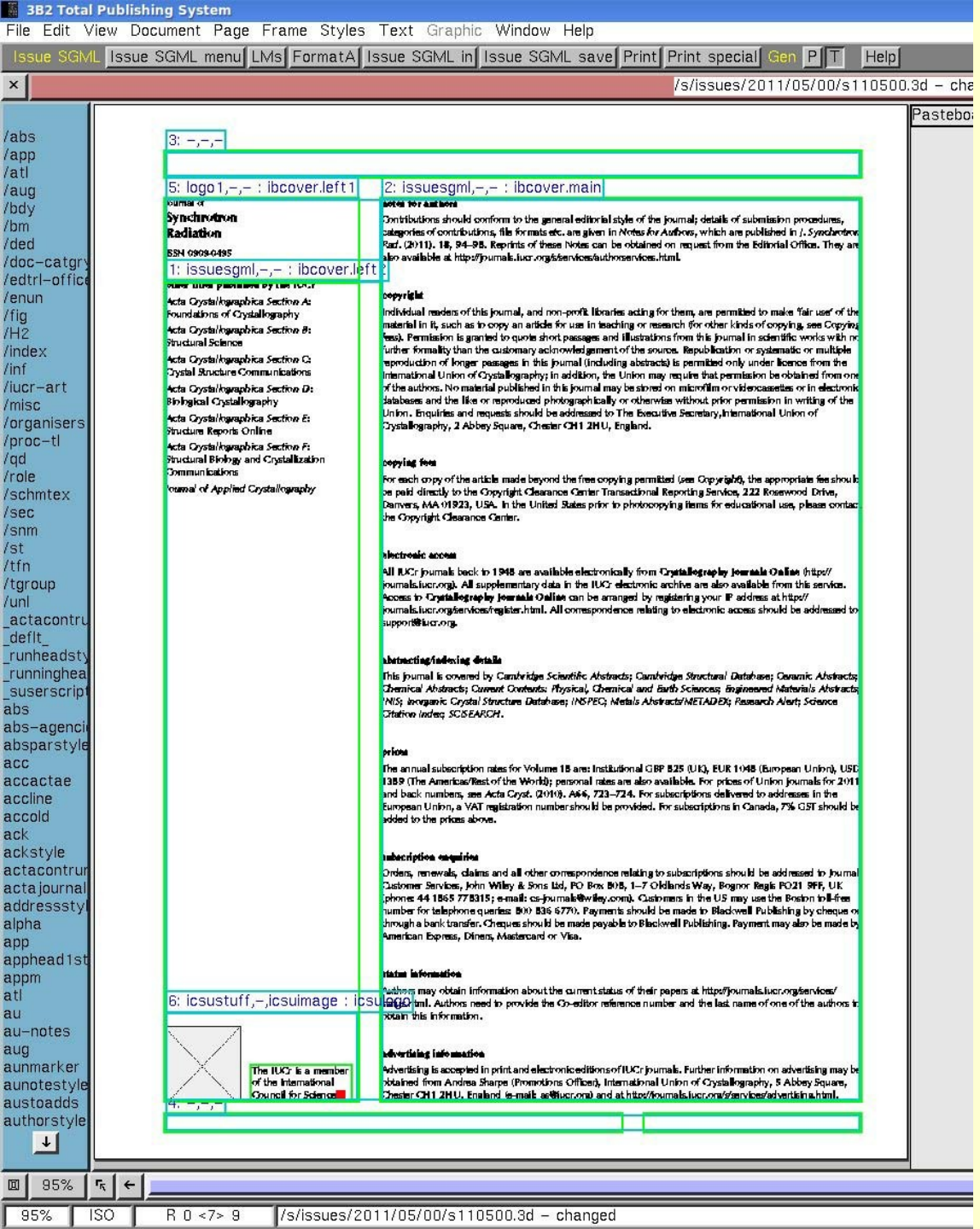
Crystallography Journals Online



Issue in 3b2

- Contents pages

Crystallography Journals Online



Issue in 3b2

- Inside back cover

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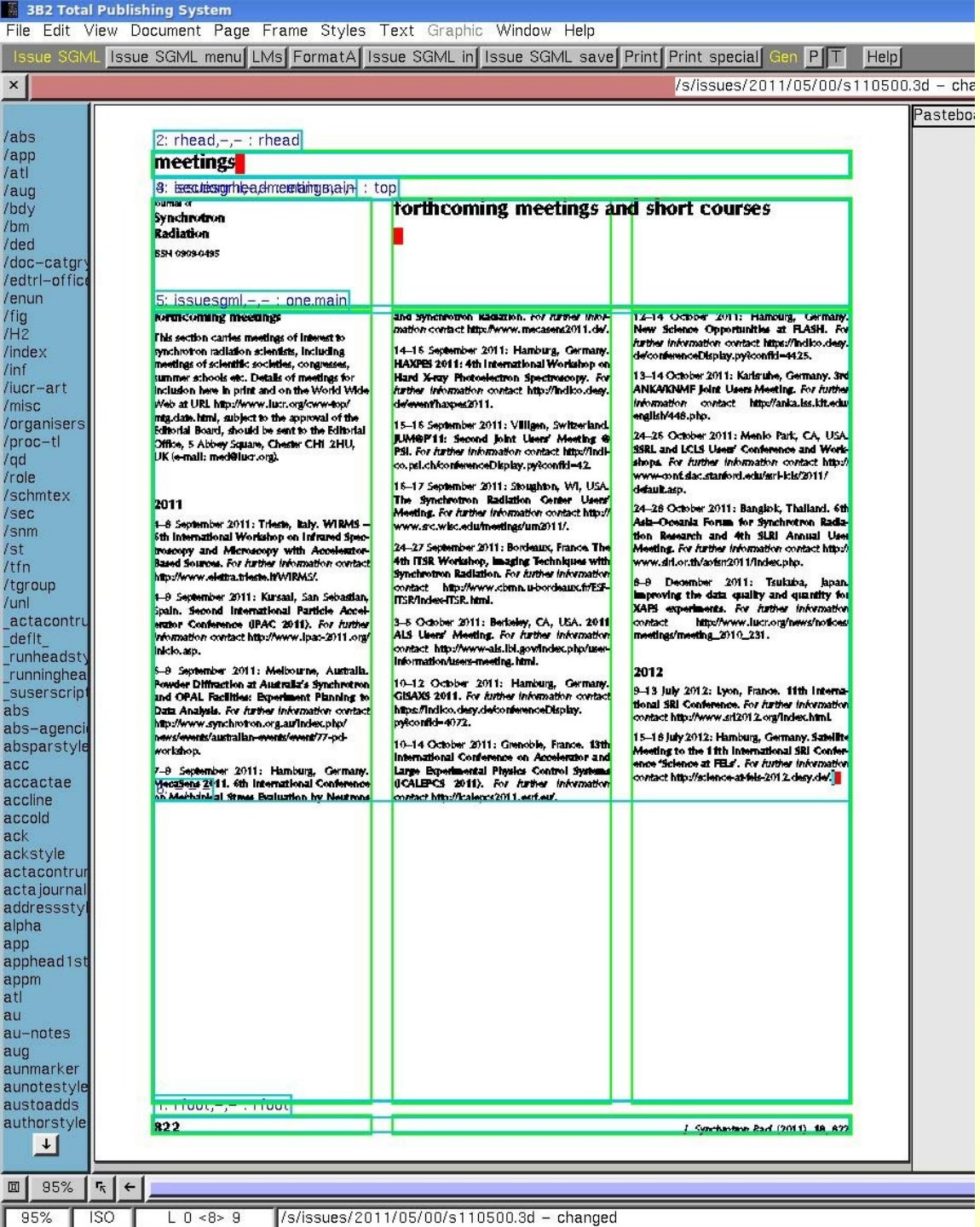

Issue in 3b2

- Meetings pages

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Issue in 3b2

- Pages are formatted in journal style, including covers
- Mistakes can be corrected
- Pages can be printed out for proof-reading
- Contents pages can be cross-checked with articles
- Final postscript files are created for each page

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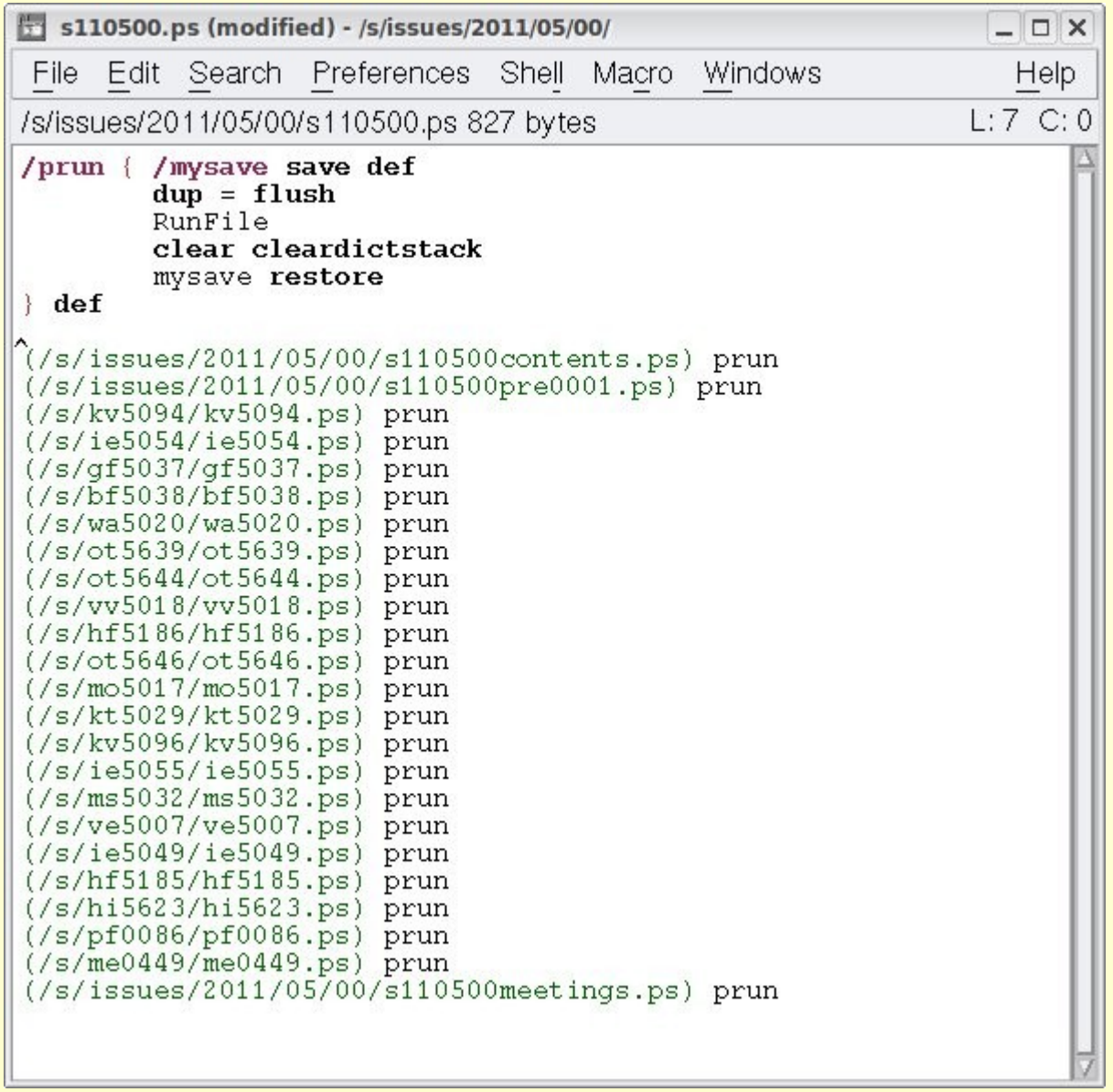
Issue driver file



A list of all the postscript files for the inside pages

This file is used to create a final pdf of the inside pages

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Checks for pdf of inside pages

- Check all pages present and in order
- Page through PDF in double-page view
- Check running headers and footers
- Check colour pages agree with issue plan
- Page through PDF in single-page view scanning for errors
- Pre-flight check in Acrobat

Crystallography Journals Online

Files sent to printer

- PDF of outside covers
- PDF of inside covers
- PDF of inside pages
- PDF of issue plan
- PDF of offprint address labels

- The above files are zipped and sent by FTP to the printers

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Final stages

- Printers post running sheets to Technical Editor
- Technical Editor makes final checks and emails printers
- Printers bind and distribute journal
- Printers post offprints to authors

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