

The main logo for FEL 2004 Trieste, Italy. It features a stylized red and blue graphic on the left that resembles a particle beam or a stylized 'F'. To the right of this graphic, the text "AUGUST 29 - SEPTEMBER 3" is written in a simple, uppercase font. Below this, "FEL 2004" is written in a large, bold, blue font with a slight shadow effect. At the bottom, "Trieste, Italy" is written in a black, cursive script font.

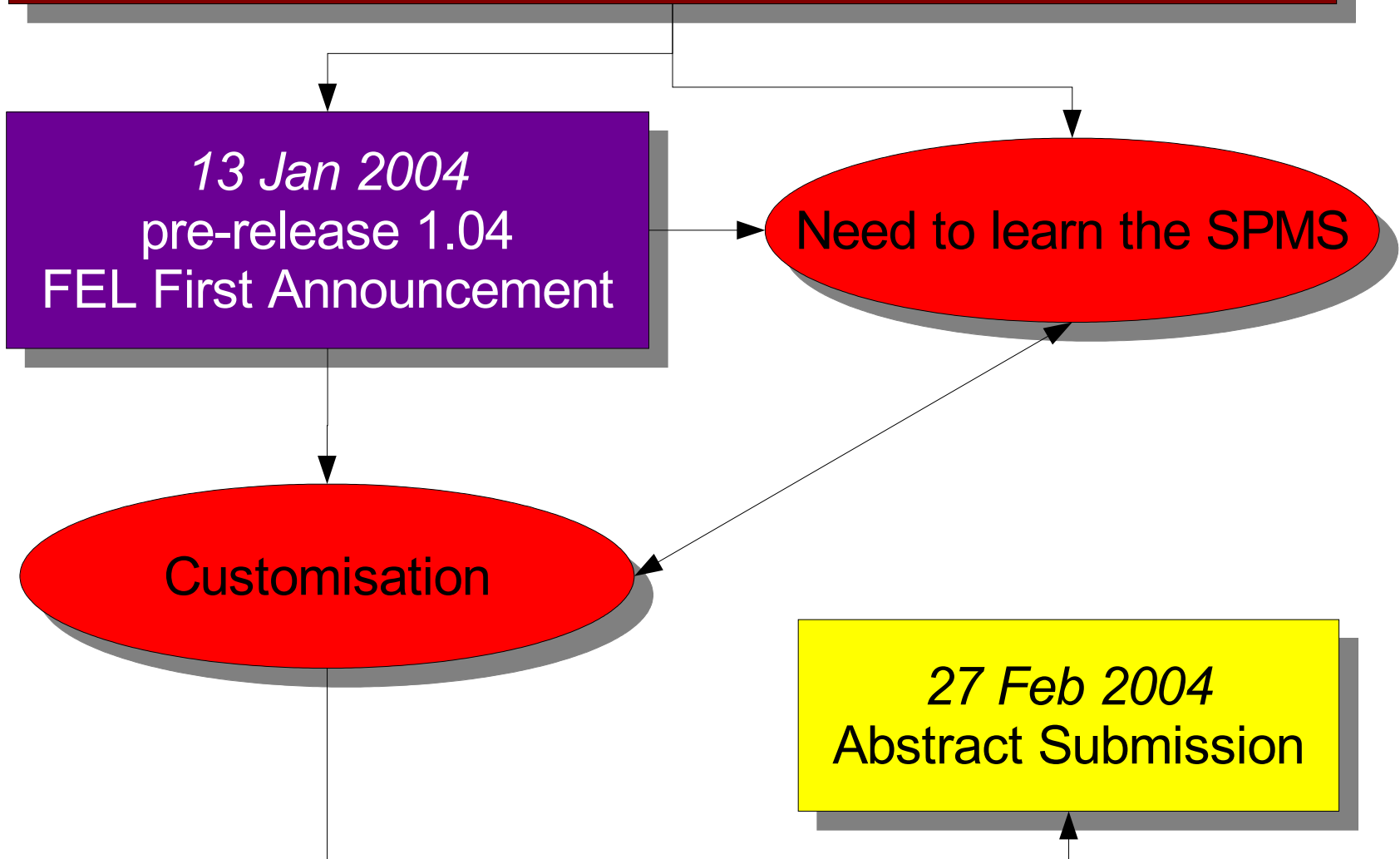
**Ivan Andrian**

**<[ivan.andrian@elettra.trieste.it](mailto:ivan.andrian@elettra.trieste.it)>**

**Sincrotrone Trieste**

**Our SPMS experience**

SPMS to be available to `others` during last TM in Trieste



## • Abstracts:

- Different need for 'initial QA'
  - The chair pre-accepts to avoid crap to go to the ISC
  - Invert the meaning for QA
- Need to have 'simple formulæ'
  - $\alpha_2^{f(x)}$
- Special characters
  - In Names: *Trovò, Rädder, Struçe*
- Different limit of characters from EPAC/PAC
  - Global instead of per-field (footnotes, funding, etc.)

## • Profiles

- No need for author membership
  - IEEE, EPS, APS,...
- Italian Privacy Laws

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<a href="#">502</a>	<sub>	\sub{		_ {
<a href="#">503</a>	</sup>	}		}

Greek letters



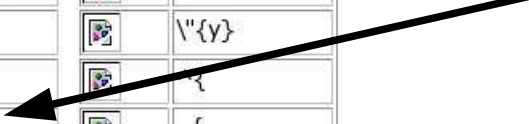
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**ID: 1001 - MOAIS01 spms  $\alpha$ -testing ( $\alpha^{\beta\gamma\delta} \Omega \gamma$ ) Ciao**

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**Authors** [Rene Johan Bakker](#), [Boris alexei](#), [Ivan Andrian](#), [Paolo Michelini](#) (ELETTRA, Basovizza), [Renetje theBakker](#) (BESSY GmbH, Berlin)

**Speaker** Renetje theBakker (BESSY GmbH, Berlin)

**Abstract** Is it\* 'working'? I know that the  $\alpha$  stage of this system still is not a  $\beta$ , but I trust i  
Remember  $10^5$  is the key! And not "forget"  $10^{15555}$  X yz Krämer Åke - Jörgen

**Footnotes** \* The SPMS, obviously!

**Funding Agency** none, unfortunately!

**Type of Presentation** Invited Oral

**Main Classification** FEL Conference

**Sub Classification** FEL Theory

**Statistics** Word Count: 43 Character Count (incl. spaces): 223

**ID: 1022 - MOAIS02 abs3**

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**Authors** [Boris alexei](#), [Stefano Deiuri](#), [topolino paperino](#) (ELETTRA, Basovizza, Trieste), [Carl](#)  
Affiliation Request Pending, )

**Presenter** Boris alexei (ELETTRA, Basovizza, Trieste)

**Abstract** Free Electron Laser at Tokyo University of Science (FEL-SUT) was employed for ex  
vibrational modes of ammonia molecules. FEL is tuned to  $10.5 \mu\text{m}$ , corresponding  
 $1) \leftarrow (v_2 = 0)$  transition of  $\text{NH}_3$ . The population of the vibrationally excited states i  
+ 1) resonance enhanced multiphoton ionization (REMPI) technique via the  $B^1E''$   
Maximum excitation efficiency of  $v_2 = 1 \leftarrow v_2 = 0$  transition was about 50 %, which  
taking account of Franck-Condon factors and the rotational line strengths. Rotatio  
the spectra revealed that vibrational ladder climbing up to  $v_2 = 2$  in  $\text{NH}_3$  was reali

**Abstract: MOPOS25** Electron beam simulations for the FERMI project at ELETTRA

**Paper ID:** MOPOS25

**Presentation Type:** Poster

**Program Session:** MOPOS -- Single Pass FELs and FEL Theory  
08/30/2004 1400 -- 1600  
Poster session in main Hall

Max 1200 chars (total)  
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Fields marked with an "\*" are required.

**Abstract Title\***

**Presentation Type\***

**Main Classification\***

**Sub Classification\***

**Abstract\*** Total text in *Abstract, Footnotes* and *Funding Agency* must not exceed 1200 characters.

FERMI at ELETTRA is a project aimed at the construction of a single-pass user facility for the spectral range from 100 nm to 10 nm. Starting point is the existing 1.2 GeV, 3-GHz linac. Downstream of the linac two undulator beamlines will serve the wavelength range from 100 nm to 40 nm, and 40 nm to 10 nm, respectively. The former beamline will be based on a single-stage HGHG scheme while for the latter a double stage HGHG scheme is foreseen. This paper discusses results from start-to-end simulations for the former beamline, including the option of HGHG. Care has been taken to include realistic models for the injector, accelerating structures, and undulator beamline.

**Footnotes** Use "\*", "\*\*\*", for references to authors, etc., as many times as necessary and with a carriage return between each.



## Abstracts book generation with spec. chars

Paper ID	Abstract Title	Author List	Abstract	Agency
MOAIS01	spms $\alpha$ -testing ( $\alpha^{\beta_{\Omega}} \gamma$ ) Ciao	<a href="#">Rene Johan Bakker</a> , <a href="#">Boris alexei</a> , <a href="#">Ivan Andrian</a> , <a href="#">Paolo Michelini</a> (ELETTRA, Basovizza, Trieste), <a href="#">Renetje theBakker</a> (BESSY GmbH, Berlin)	Is it* 'working'? I know that the $\alpha$ stage of this system still is not a $\beta$ , but I trust in the $\alpha\beta$ progress. Remember $10^5$ is the key! And not "forget" $10^{15}$ X yz Krämer Åke – Jörgen	none, unfortunately!
MOAIS02	abs3	<a href="#">Boris alexei</a> , <a href="#">Stefano Deiuri</a> , <a href="#">topolino paperino</a> (ELETTRA, Basovizza, Trieste), <a href="#">Carlone Carloni</a> (New Affiliation Request Pending, )	Free Electron Laser at Tokyo University of Science (FEL-SUT) was employed for exciting single vibrational modes of ammonia molecules. FEL is tuned to $10.5 \mu\text{m}$ , corresponding to the $X^1A_1' (v_2 = 1) \leftarrow (v_2 = 0)$ transition of $\text{NH}_3$ . The population of the vibrationally excited states is probed by the $(2 + 1)$ resonance enhanced multiphoton ionization (REMPI) technique via the $B^1E''$ Rydberg state. Maximum excitation efficiency of $v_2 = 1 \leftarrow v_2 = 0$ transition was about 50 %, which was estimated by taking account of Franck-Condon factors and the rotational line strengths. Rotational analyses of the spectra revealed that vibrational ladder climbing up to $v_2 = 2$ in $\text{NH}_3$ was realized for the first time. Experimental results on $v_4$ vibrational excitation of $\text{NH}_3$ and $\text{ND}_3$ will be also reported.	ccccc

## Conference guide

Paper ID	Abstract Title	Author List
MOAIS01	spms $\alpha$ -testing ( $\alpha^{\beta_{\text{ss}}}$ $\Omega$ $\gamma$ ) Ciao	<a href="#">Rene Johan Bakker</a> , <a href="#">Boris alexei</a> , <a href="#">Ivan Andrian</a> , <a href="#">Paolo Michelini</a> (ELETTRA, Basovizza, Trieste), <a href="#">Renetje theBakker</a> (BESSY GmbH, Berlin)
MOAIS02	abs3	<a href="#">Boris alexei</a> , <a href="#">Stefano Deiuri</a> , <a href="#">topolino paperino</a> (ELETTRA, Basovizza, Trieste), <a href="#">Carlone Carloni</a> (New Affiliation Request Pending, )
MOAOS01	Properties of Cathodes Used in the Photoinjector RF Gun at the DESY VUV-FEL	<a href="#">Renetje theBakker</a> (BESSY GmbH, Berlin), <a href="#">Rene Johan Bakker</a> (ELETTRA, Basovizza, Trieste)
MOPOS02	I have time to spend	<a href="#">Rene Johan Bakker</a> (ELETTRA, Basovizza, Trieste), <a href="#">Boris alexei</a> (ELETTRA, Basovizza, Trieste; Elettra vacation, Basovizza), <a href="#">Daniele Bulfone</a> (ELETTRA, Basovizza, Trieste; SOLEIL, Gif-sur-Yvette)
TUBOS05	Commissioning of the TTF Linac Injector at the DESY VUV-FEL	<a href="#">Katja Honkavaara</a> (DESY, Hamburg)

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- Referee comment
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292 Abstract Created	0 Copyright form Received	0 Final QA Failed
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## Sessions

<b>MOAxS</b>	Opening Session
<b>MOBxS</b>	Single Pass FELs
<b>MOCxS</b>	FEL Theory
<b>MOPOS</b>	Single Pass FELs and FEL Theory
<b>TUAxS</b>	FEL Technology I
<b>TUBxS</b>	FEL Technology II
<b>TUCxS</b>	FEL Oscillators
<b>TUPOS</b>	FEL Technology
<b>WEAxS</b>	FEL Experiments
<b>WEBxS</b>	New Concepts and Ideas
<b>THBxC</b>	Gun/Injector Technology
<b>THBxS</b>	Physical and Chemical Sciences
<b>THCxS</b>	Short Wavelength FEL Applications

## Session: TUCxS - 31 Aug 2004 FEL Oscillators

### TUCOS01 Status of the Novosibirsk Terahertz FEL

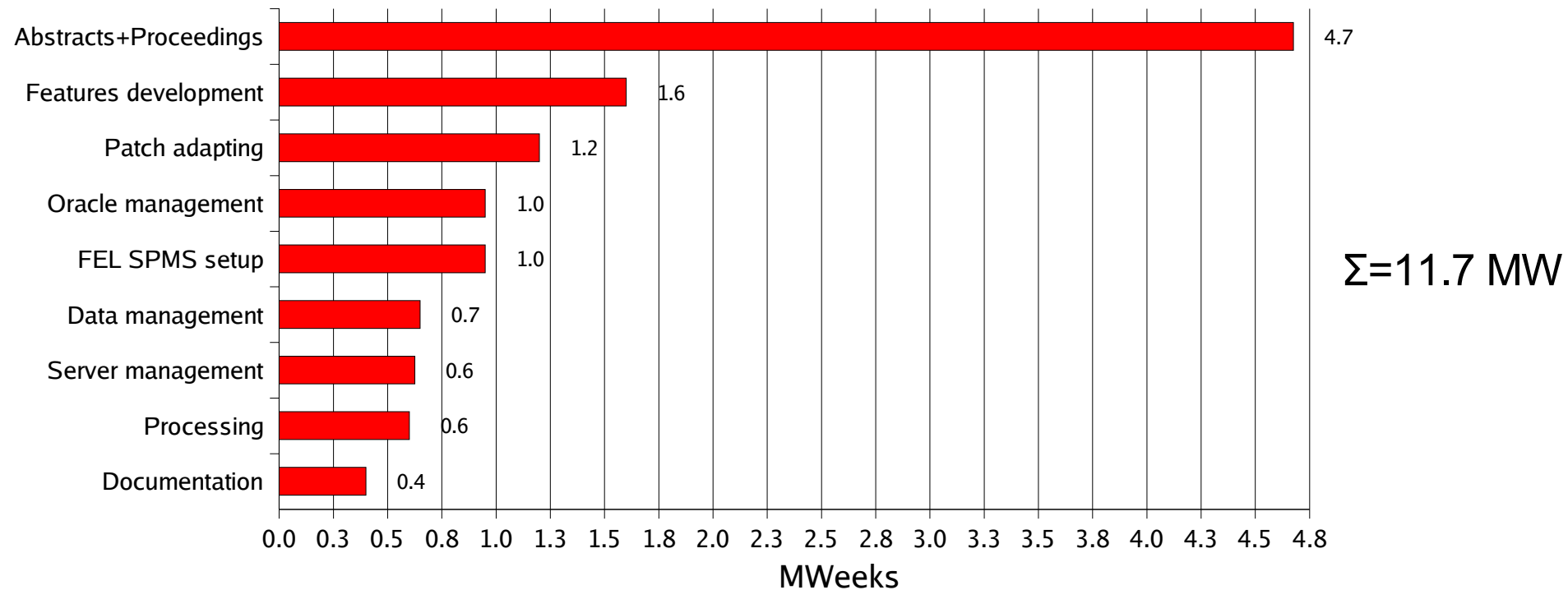
Nikolai Aleksandrovich Vinokurov, Vladimir Petrovich Bolotin, Dmitriy Aleksandrovich Kayran, Boris Aleksandrovich Knyazev, Evgeniy Ivanovich Kolobanov, V.V. Kotenkov, Vitaliy Vladimirovich Kubarev, Gennadiy Nikolaevich Kulipanov, Alexander Nikolaevich Matveenkov, Lev Eduardovich Medvedev, Sergey Vladimirovich Miginsky, Leontiy Alekseevich Mironenko, Aleksandr Danilovich Oreshkov, Vladimir Kirillovich Ovchar, Vasiliy Mikhailovich Popik, Tatyana Vladimirovna Salikova, Mikhail Alekseevich Scheglov, Stanislav Sergeevich Serednyakov, Oleg Alexandrovich Shevchenko, Aleksandr Nikolayevich Skrinksky (*BINP, Novosibirsk*)

### TUCOS02 High Power Lasing in the IR Upgrade FEL at Jefferson Lab

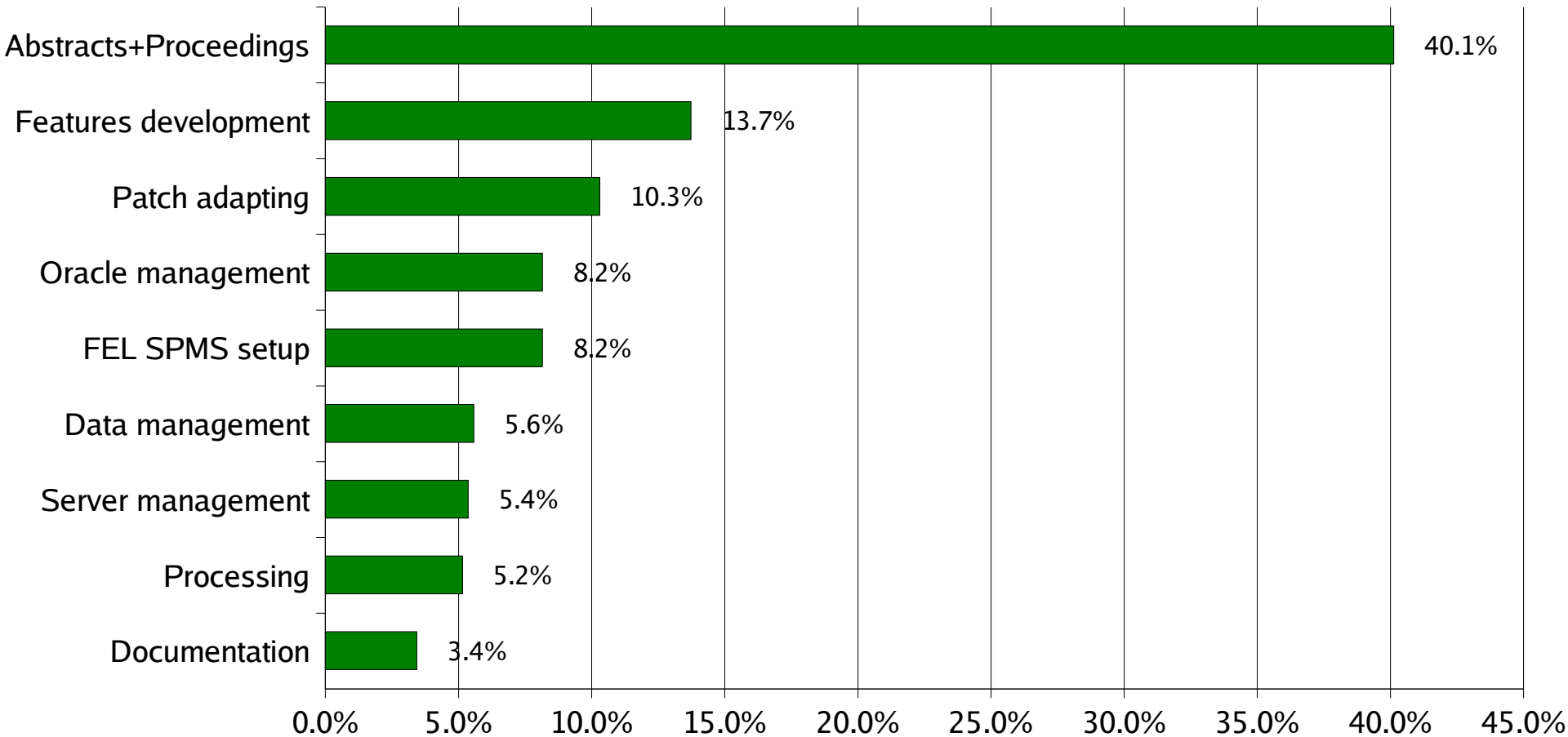
Stephen Vincent Benson, Kevin Beard, Chris Behre, George Herman Biallas, James Boyce, David Douglas, Fred Dylla, Richard Evans, Al Grippo, Joe Gubeli, David Hardy, Carlos Hernandez-Garcia, Kevin Jordan, Lia Merminga, George Neil, Joe Preble, Michelle D. Shinn, Tim Siggins, Richard Walker, Gwyn Williams, Byung Yunn, Shukui Zhang (*Jefferson Lab, Newport News, Virginia*), Hiroyuki Toyokawa (*KEK, Ibaraki*)

### TUCOS03 VUV Optics Development for the Elettra Storage Ring FEL

## SPMS IA worktime (out of the conf.)



## SPMS IA worktime (%)





- Lack of documentation
- No view of initials in author list w/o administrator power
- Hard to stay after the official development
  - Very fast in certain periods
  - Decision to stay with v. 1.21 (same as EPAC) close to the conference
  - Check of changes impact (`vimdiff` helps a lot)
  - Need of a development machine
- Many authors did not understand well some fields
  - Initials

- SPMS customisation may be needed
  - SPMS v. 1.21 : 32,895 lines
  - SPMS v. 1.21ia5 : 38,091 lines
    - 5196 more lines (15.8%)
- Not so hard to do
  - More workload expected in development
  - Less in patching / books generation
  - External scripts only for up/download + LaTeX compiling
- “Official group development” could improve
  - One main developer / coordinator
  - Many minor developers / contributors
- Change in development model needed
  - Tools like CVS and so on
- FEL 2004 LOC got a lot from this