

THE ESAC TRAINEE PROJECT

Deborah Baines

(SRE-OE)

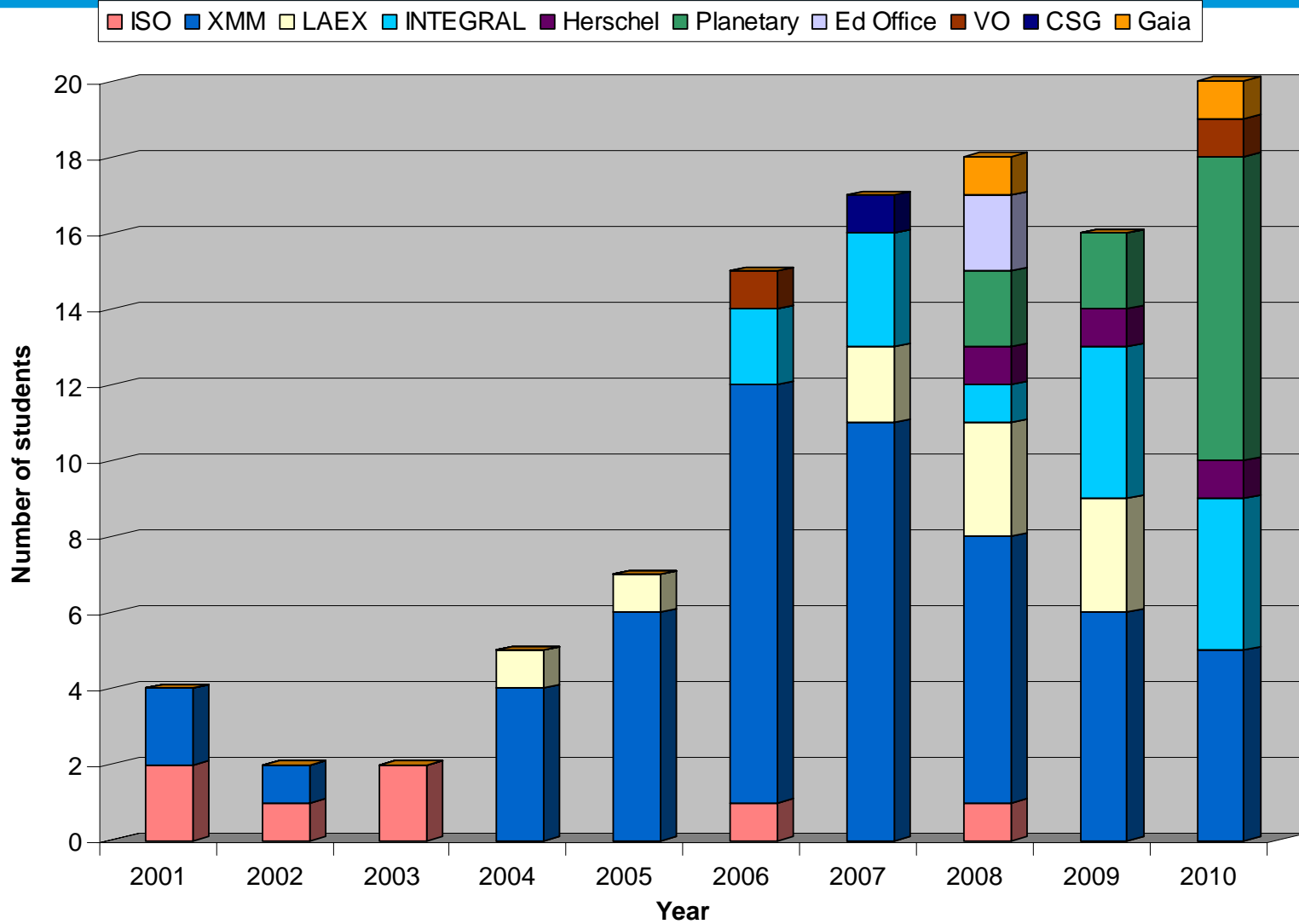
2 July 2010

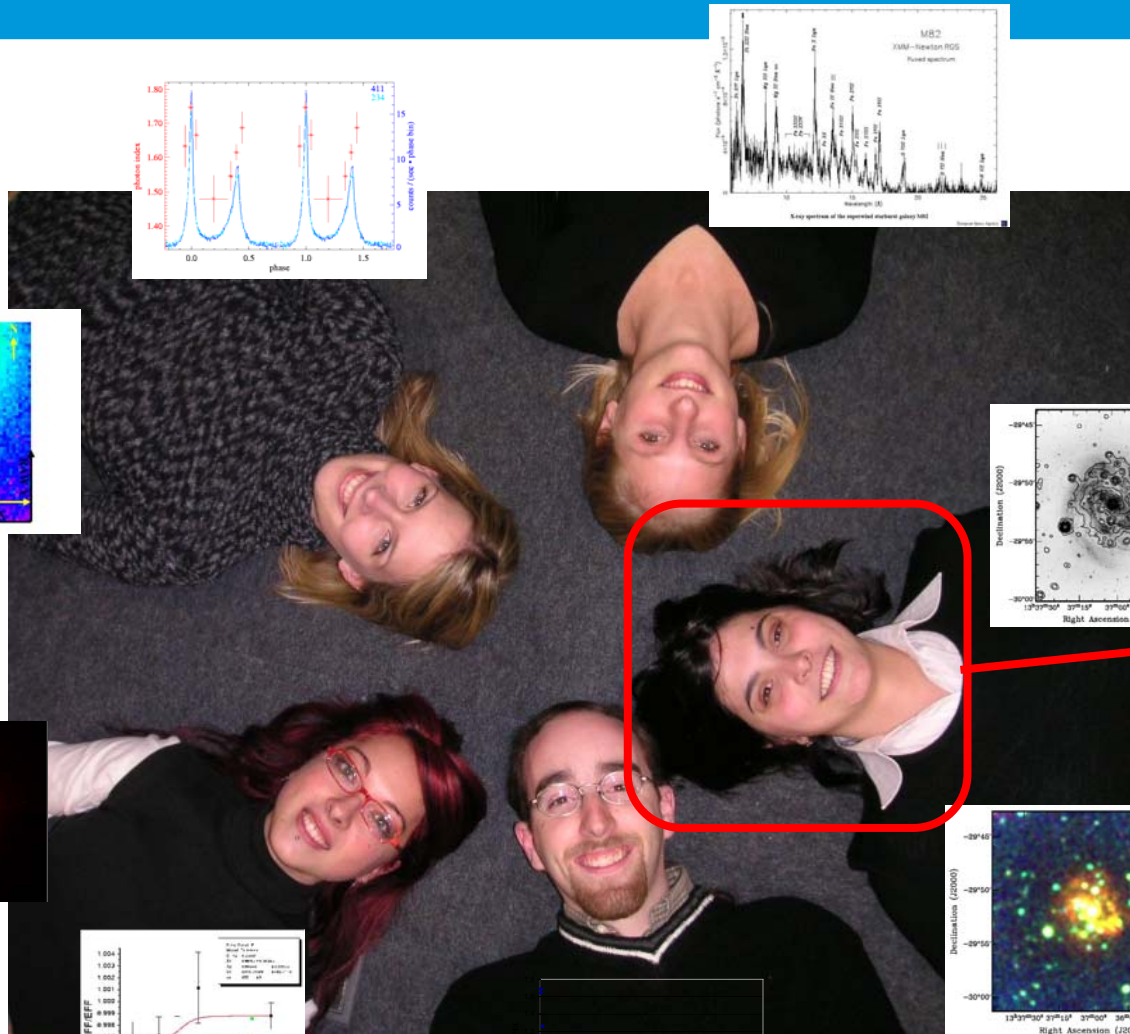
- **Postdoctoral Research Fellowships (post doctorate; ~2 years)**
- **Young Graduate Trainees (post graduate; ~1 year)**
- **National Trainee Programmes (Spain, Portugal, Germany & Greece; post graduate; 1-2 years)**
- **Student Placements/stagiaires (pre & post graduate; 3-6 months)**

Only these are discussed in this presentation

- **ESA Internship/Student placements see:**
http://www.esa.int/esaMI/Careers_at_ESA/SEMSB5XO4HD_0.html
- **Students stay for 3-6 months.**
- **Agreement between ESAC and UCM for credit point work at ESAC as of 2000, and between ESAC and UAM as of 2007.**
- **From 1980's until 2004 Willem Wamsteker was the coordinator for student placements at ESAC, included PhD students and undergraduates from Madrid and EU.**
- **2004: Marcus Kirsch founded the XMM-EPIC trainee project.**
- **Feb 05 – April 08: Marcus Kirsch was ESAC Trainee coordinator.**
- **Apr – July 08: Ricardo Rizzo took over as interim Trainee coordinator.**
- **Formal recognition by SRE-O top management to continue and increase the ESAC Trainee Project to a dedicated 0.50 FTE => July 08: Deborah Baines took over as the Trainee coordinator.**

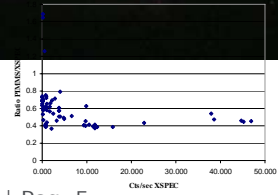
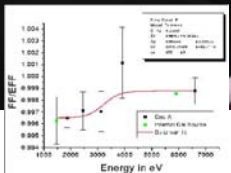
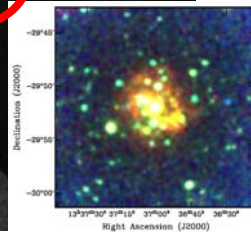
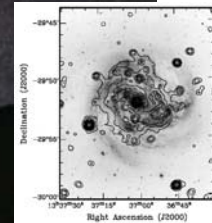
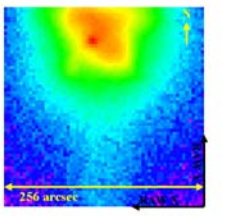
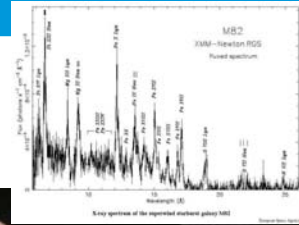
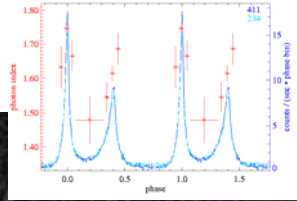
HISTORY





- 4 XMM-Newton
- 1 LAEFF

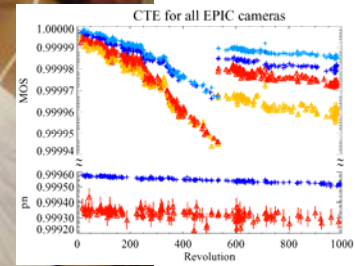
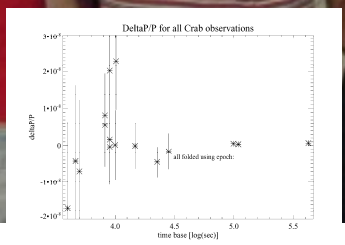
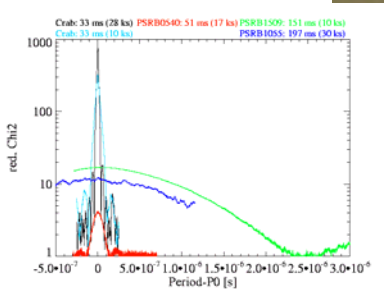
FLORENCIA



Trainee Project 2005



- 6 XMM
- 1 LAEFF





➤ 11 XMM-Newton, 2 INTEGRAL, 1 ISO & 1 VO



BEA

ILLEANA

- 11 XMM-Newton, 3 INTEGRAL, 2 LAEFF & 1 CSG

ALEX



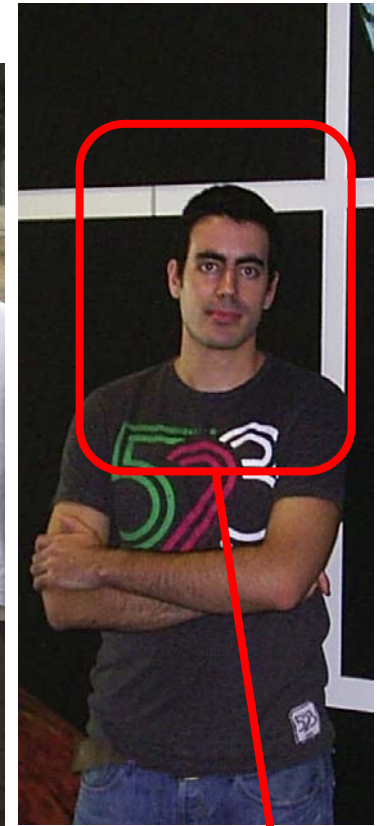
+ FLORENT

NATHAN

- 7 XMM-Newton, 3 LAEFF, 2 Planetary, 1 INTEGRAL
1 Herschel, 1 ISO, 1 GAIA, 2 Education Office

MAËL

CHERRY



RUBEN

- 6 XMM-Newton, 4 INTEGRAL, 3 LAEFF, 2 Planetary, 1 Herschel



➤ **8 Planetary, 5 XMM-Newton, 4 INTEGRAL,
1 GAIA, 1 Herschel, 1 VO**

- **8 Planetary**
- 5 XMM-Newton**
- 4 INTEGRAL**
- 1 GAIA**
- 1 Herschel**
- 1 VO**



➔ 20 Students:

- 10 Non Local & 10 Local (17 ES, 1 FR, 1 IE & 1 GR)
- 13 Physics, 5 Engineering, 2 Computer Engineering
- 14 post grads, 6 pre grads
- *From: Madrid:* UAM, UCM, UPM & Uni Pontificia de Salamanca
- *Spain:* Uni of Barcelona, Uni of La Laguna, Uni of Sevilla, Polytechnic Uni of Valencia
- *EU:* Cranfield Uni, Ecole Centrale Nantes, Observatory of Paris, Trinity College Dublin, Technical Uni of Athens

IMPROVEMENTS:

- Application now online
- Selection process made simpler
- Larger budget

GOALS:

- Maintain collaboration with current institutes (MPE, University of Tübingen, Erlangen, Leicester, Warwick, Linköping, Kiev, etc).
- Continue increasing the number of participating institutions.
- Increase the range of EU countries whilst also having a good representative of local students.
- Increase ESAC profile as an 'International' Science Centre.
- Continue with the Trainee Alumni and Winter Meetings.
- Further ideas welcome – email deborah.baines@sciops.esa.int

- 10:00 Deborah Baines: Welcome
- 10:10 Florent Nobelen: Validation of the pipeline of the Herschel Space Observatory PACS instrument thanks to a scientific simulator
- 10:30 Ruben Herrero: Identification of very massive AGB stars in the GLIMPSE survey
- 10:50 Cherry NG: Study of extra-solar planets using the transit method
- 11:10 Illena Gómez: Spectro-photometric analysis and modeling of the infrared emission of exoplanets
- 11:30 *Coffee break*
- 12:00 Nathan Dickinson: The atmospheres of hot white dwarfs
- 12:20 Alex Kolodzig: Results of X-ray spectra modeling for accretion plasma of magnetic white dwarfs
- 12:40 Guillermo Jenaro: Neutron stars and black holes on the edge
- 13:00 Enrique Sanchez: Gallery of selected galactic supernova remnants
- 13:20 *Lunch (13:30 at canteen)*