

CONCLUSIONS

6th IACHEC

Matteo Guainazzi (ESAC-ESA)



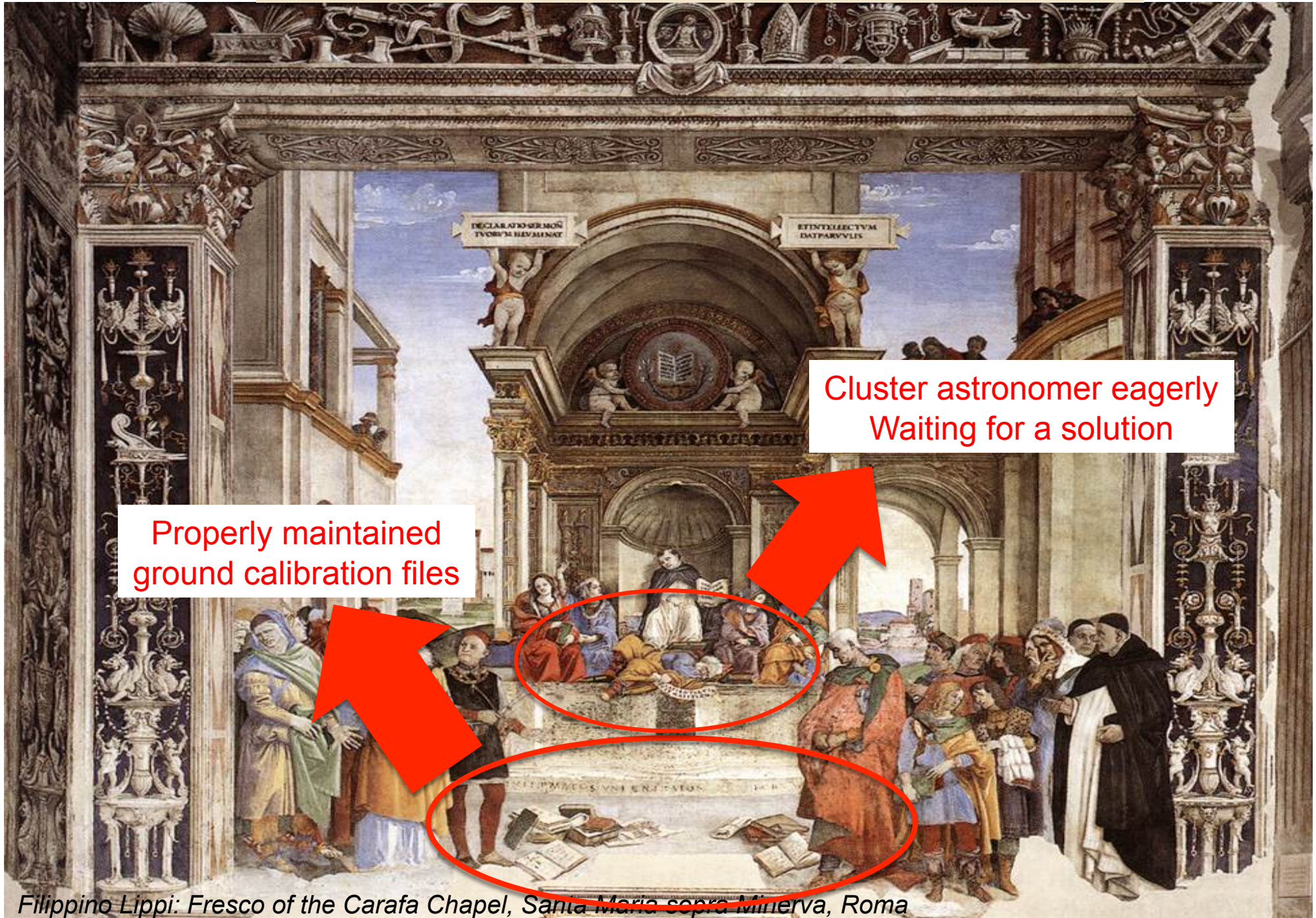
Matteo Greuter: *Villa Grazioli* 1620

Filippino Lippi:
Frescos of the Carafa Chapel,
Santa Maria sopra Minerva, Roma



Keeling: **Cardinal Oliviero Carafa** (1430-1511)

The quest for the calibration magic bullet



Cluster astronomer eagerly
Waiting for a solution

Properly maintained
ground calibration files

Filippino Lippi: Fresco of the Carafa Chapel, Santa Maria sopra Minerva, Roma



a.k.a. Giovanni Piero Carafa

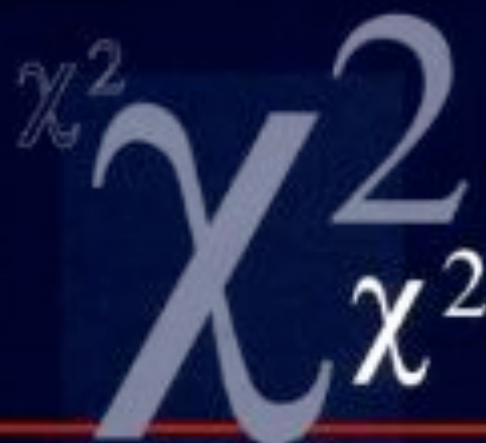
- Affirmed the Catholic dogma: "*Extra ecclesia nulla salus*" ("There is no salvation outside the Church")
- Published the canon "*Cum nimis absurdum*"
- Introduced the "*index Librorum Prohibitorum*" to Venice



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A Guide to Chi-Squared Testing

Priscilla E. Greenwood
Mikhail S. Nikulin



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PROBABILITY AND STATISTICS

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Meeting structure evolution

IACHEC year	Number of participants	Number of talks
2006 (Iceland)	36	26
2007 (California)	35	30
2008 (Germany)	36	26
2009 (Japan)	35	34
2010 (Massachusetts)	45	50
2011 (Italy)	44	38

Paper status

Paper	Missing	Submission by IACHEC ...
1E0102-7219	Weak line identification, pn reanalysis	2012
Bremsstrahlung vs. ionization T	Ongoing	2012
Blazar sample	Calibration consolidation	2012
Capella	High-resolution spectroscopy line census	2013
Cluster	Done	June 2010
Crab	High-energy effective area	2011
G21.5-0.9	Done	August 2010
N132D	RGS-based model	2013
PKS2155-304	Calibration consolidation	2012
White dwarfs	Astrophysics, LETG+HRC-s eff. area	2011

“Strategical questions” – I.

1. Which is our next immediate cross-calibration goal (by IACHEC 2012)
 - ▣ 0.1-10 keV: use Drake’s method to assess: a) which handle could be touched to improve the cross-calibration status; b) estimate the uncertainties on physical parameters due to the cross-calibration uncertainties
 - ▣ How to change calibration to improve >10 keV calibrations at the IACHEC 2012 NTSNR WG
2. How do we make sure that the users’ community get reliably updated information on the cross-calibration status beyond the published papers?
 - ▣ Collect IACHEC-related papers on the IACHEC web (please, tell me which!)
 - ▣ Use and regularly update the Working Group Wiki pages: inspires collaborative projects
3. Recently operational or soon-to-be-launched X-ray missions: are we doing enough to help and involve them?
 - ▣ IACHEC Wiki forum for experience and information interchange
 - ▣ Strengthen liaison with NuStar

“Strategical questions” – II.



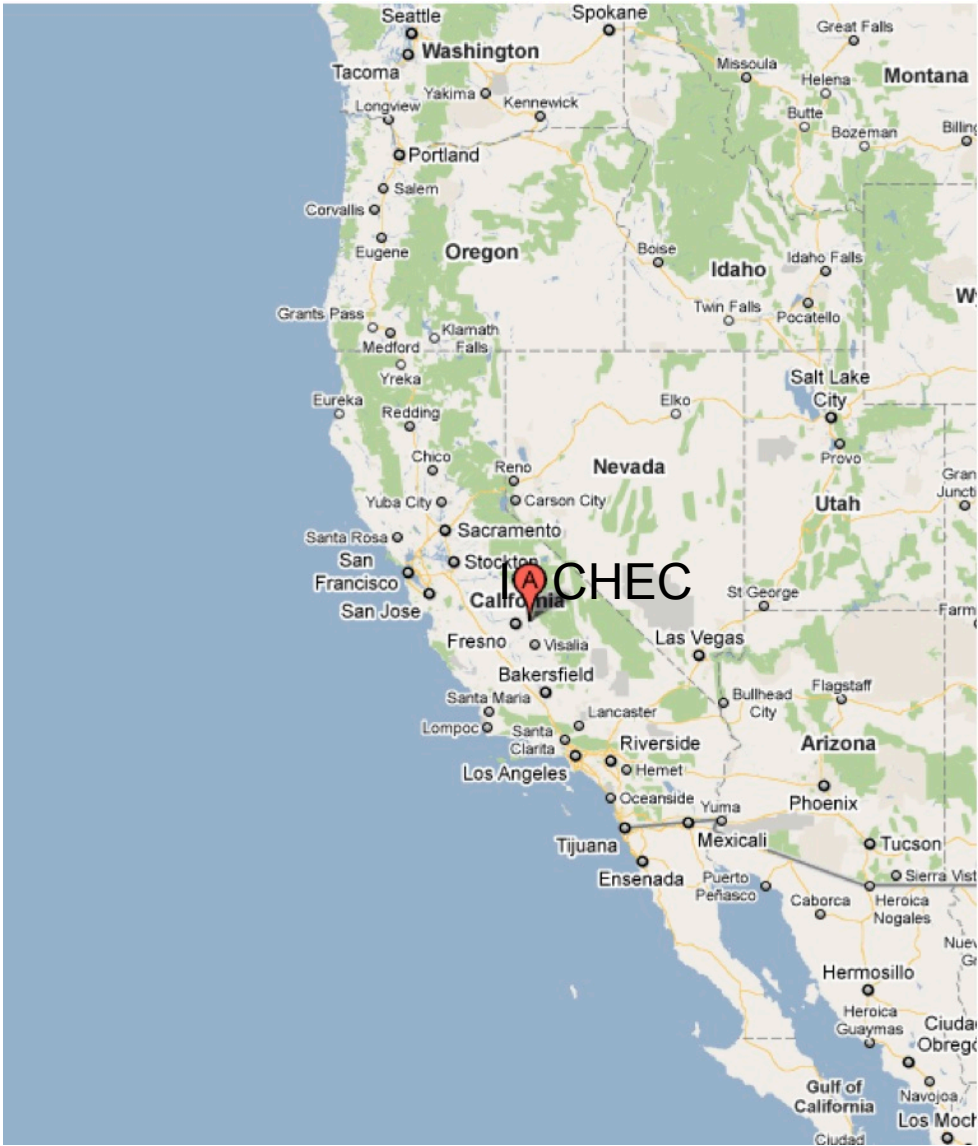
1. Shall we give a more formal structure to our work (data model, legacy calibration plans, 10 Commandments)?
 - ▣ One commandment is enough: do things right, use `cstat`
 - ▣ IACHEC paper on cross-calibration methodology after WG paper being published
2. Shall we try to join the discussion on future high-energy observatories, and how?
 - ▣ P.Ubertini: “I wish there would be one (observatory, I mean)”
3. Calibration satellite?

Three keys for a successful meeting



- Alessandra Ruggero
- Catia Spalletta
- Lorenzo Natalucci

Next meeting in ...



My proposal for “strategical questions”



1. Which is our next immediate cross-calibration goal?
2. How do we make sure that the users' community get reliably updated information on the cross-calibration status beyond the published papers?
3. Recently operational or soon-to-be-launched X-ray missions: are we doing enough to involve them?
4. Shall we give a more formal structure to our work (data model, legacy calibration plans, 10 Commandments)?
5. Shall we try to influence the discussion on future high-energy observatories, and how?