

How to join the google group email list

- 1. Email <u>kkm@caltech.edu</u> to join OR
- 2. Log in to : groups.google.com
- 3. Search for "IACHEC"
- 4. Hit "apply" or "join"
- 5. Now you can send
- 6. To post to this group, send email to <u>iachec@googlegroups.com</u>. Visit this group at <u>https://groups.google.com/group/iachec</u>.

IACHEC

International Astronomical Consortium for High Energy Calibration













Evolution of Attendance

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
2012 (California)	40	29
2013 (UK)	36 (+6 seq.ed)	48 (20 plenary)
2014 (Virginia)	51 54 (24 plenary)	
2015 (RPC)	57 + 37 students	45 (25 plenary)
2018 (Italy)	52	50 (30 plenary)



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2019 (Japan)	65	70! (36 plenary)	
2011 (Italy)	44	38	
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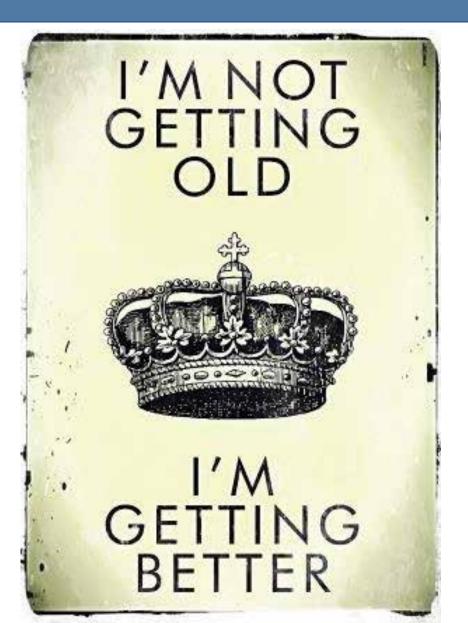


New participants



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Thermal aging....



"Listen Buddy! After the hot flushes I've been having this is like a resort!"





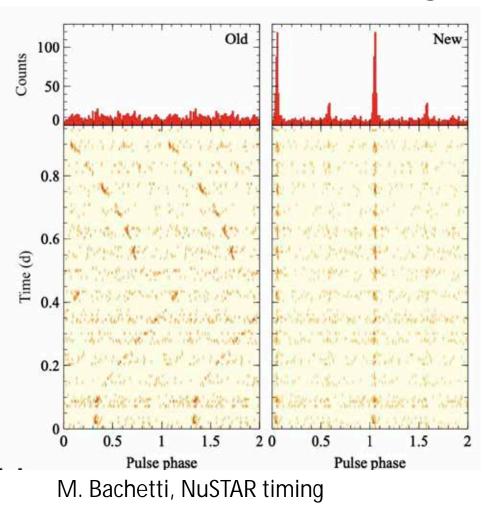
Thermal aging....



"Listen Buddy! After the hot flushes I've been having this is like a resort!" Contamination ...



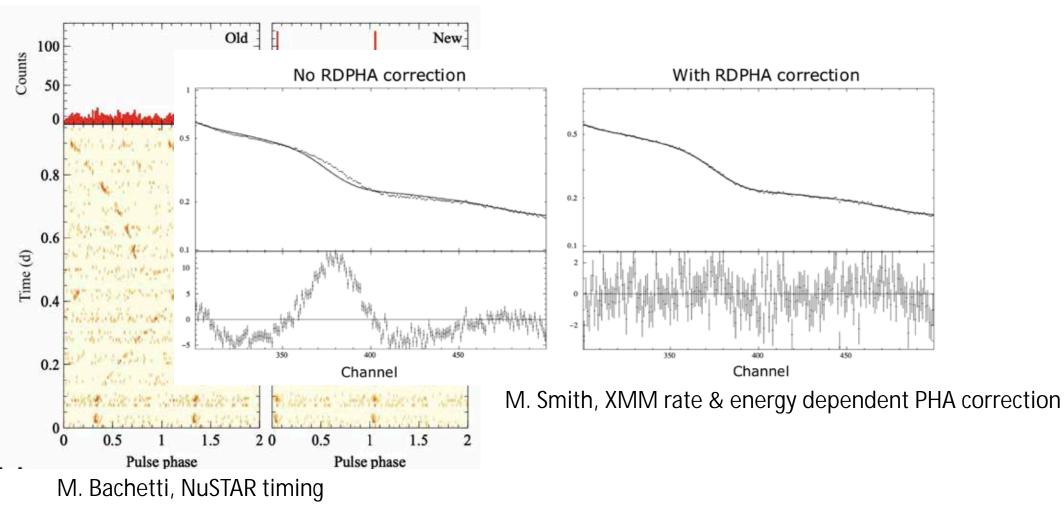
Understanding has improved



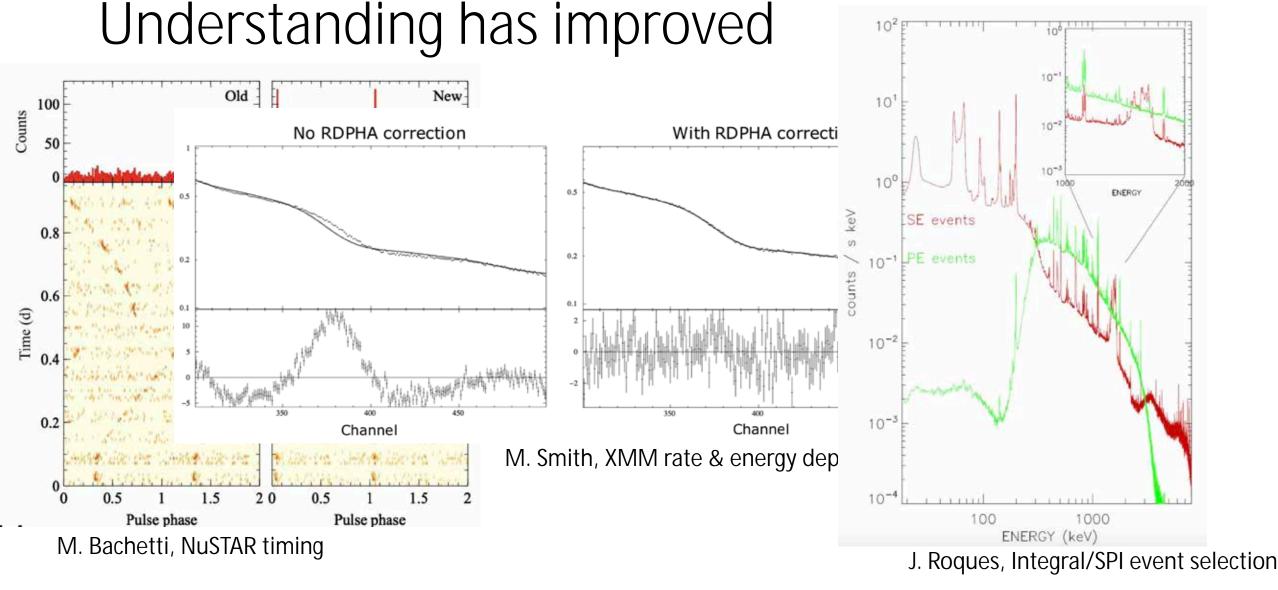




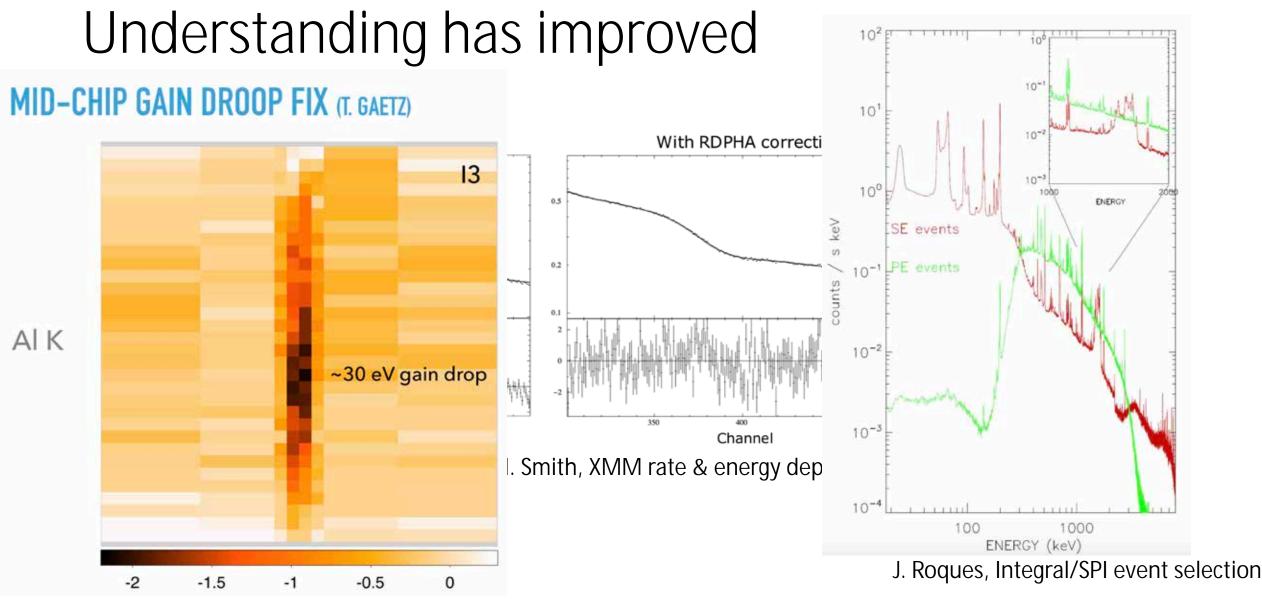
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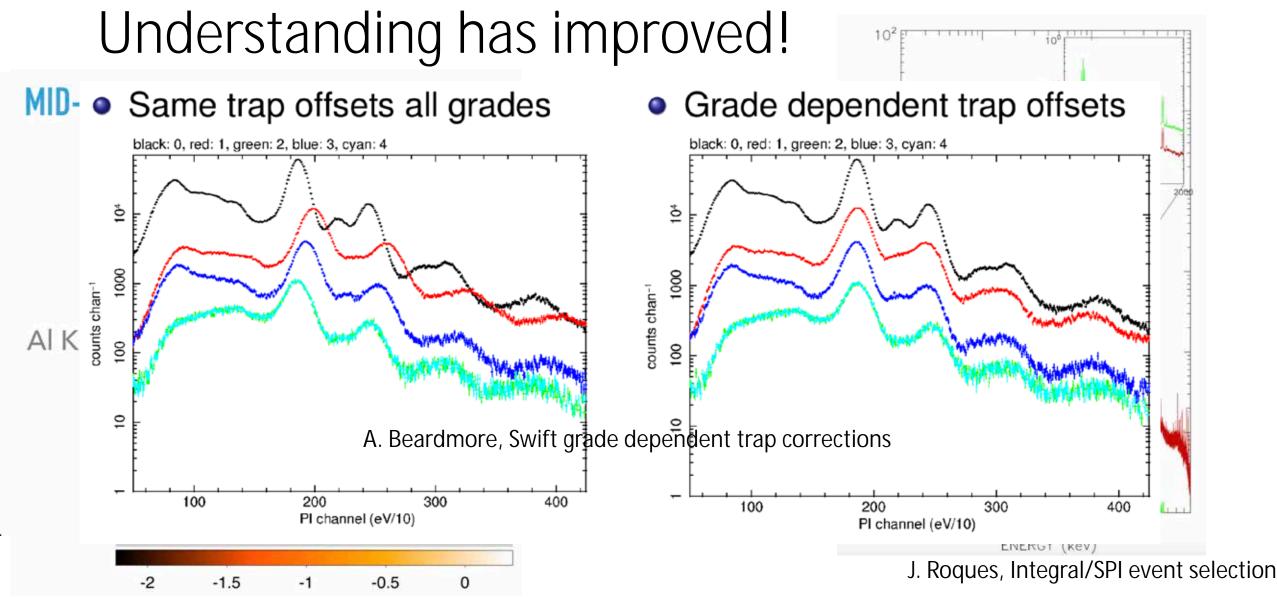






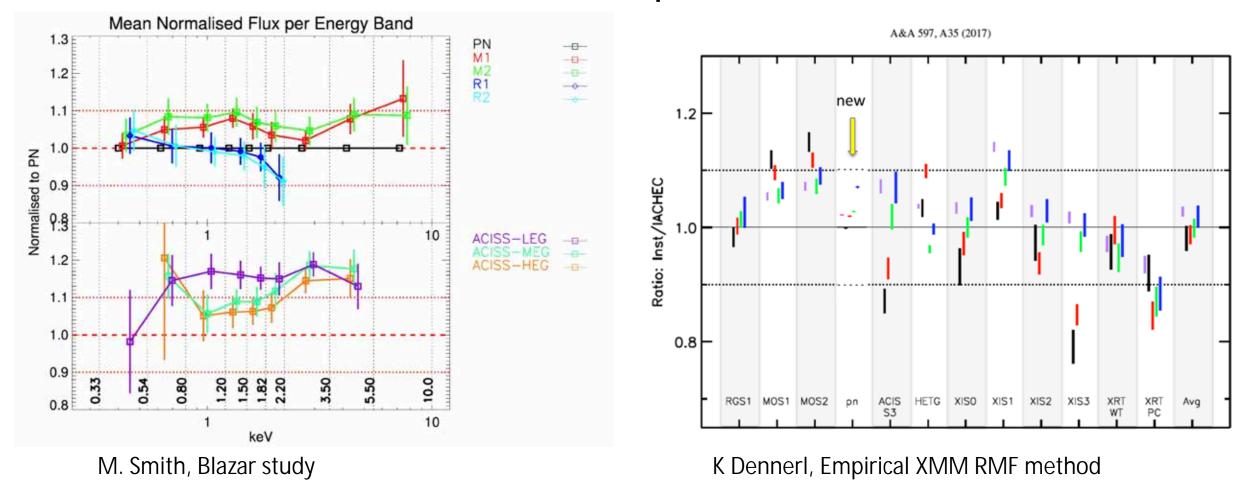








Cross calibration has improved too!





Paper status

Paper	Status last year	Status this year	
C/X blazar sample	wrapping up	wrapping up	
Crab	advanced draft	in preparation	
3C273 (INTEGRAL)	-	to be started	
3C273 (NICER)	-	to be started	
3C273 (NuSTAR)	-	to be started	
G21.5-0.9	-	to be started	
N132D	not discussed	in preparation	
Concordance Project	-	submitted/in preparation	Astro-oriented
MMS (galaxy clusters)	to be started	in preparation	
RXJ1856-3754	-	under consideration	
Timing (Crab)	-	under consideration	
Crab phase-resolved	-	under consideration	
Contamination (Miller)	To be started	Draft	
Background	To be started	TBC]

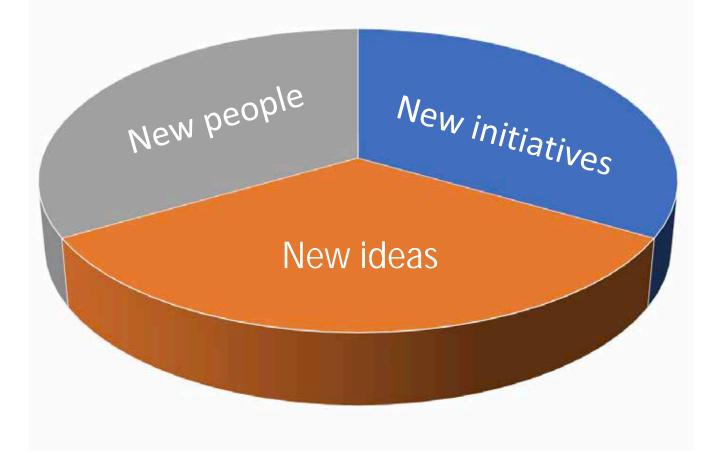


But... rejuvenation is necessary





How to ensure progress and rejuvenation



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New Initiatives

- Communications group (started 2018)
 - Increase exposure to the science community
 - Increase feed back from the science community
- Optics calibration special session in 15th meeting to become a WG?
- Spread the cross-calibration vision through ASTRO2020 decadal WP
- Apply for ADAP and APRA funding for specific cross-calibration tasks
- Pursue HEASARC involvement
- Reusable calibration workflows
- Restructure the IACHEC webpage (please send suggestions to me directly: kkm@caltech.edu)
- Growing workshop attendance -> restructure workshop meeting
 - Increase working group time
 - Introduce poster options
 - Optionally tag on an additional day just for "work"



Revisit IACHEC procedures

- Setting yearly goals
 - Starts here and now
- Pursue the yearly goals in a timely fashion
 - WG management
- Write IACHEC report early!
- Inform community of progress
- Feedback from community
 - Involve members



Revisit IACHEC procedures

- Setting yearly goals
 - Starts here and now
- Pursue the yearly goals in timely fashion
 - WG management
 - Deputy chairs?
- Write IACHEC report early!
- Inform community of progress
- Feedback from community
 - Involve members

HERDING CATS:

"A futile attempt to control that which is inherently uncontrollable."









Special Thanks to



LOC members Yukikatsu Terada (Saitama U), Masahiro Tsujimoto (ISAS/JAXA), Koji Mori (Miyazaki U), Hiroshi Nakajima (Kanto Gakuin U) Tatehiro Mihara (RIKEN), Mutsumi Sugisaki (TITECH)