Intro to AJC

FALL 2016 VICTOR CALDERON

What is AJC?

- "Astronomy Journal Club".
- Good practice for giving scientific talks.
- Slightly more specialized than a colloquium talk.
- ❖ First-year students are exempt the 1st semester.

Make sure you're on the AJC and Physics-Astronomy lists: PHYS_AJC@LIST.VANDERBILT.EDU

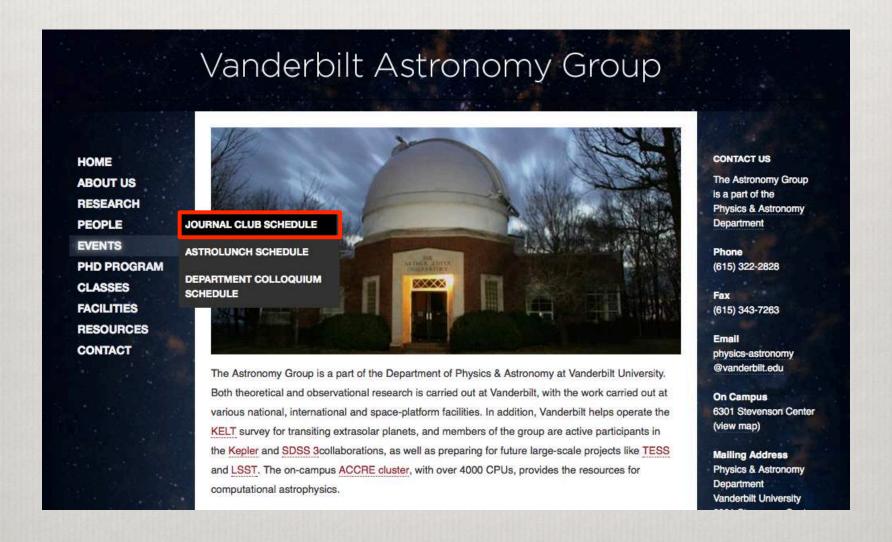
PHYS_ASTRO@LIST.VANDERBILT.EDU

If not, talk to Don Pickert (SC 6301) or donald.pickert@vanderbilt.edu

When and where?

- * Every Wednesday at 12pm.
- ❖ Here, at SC 6333

How to find it?



Fall 2016 - Schedule

JOURNAL CLUB - FALL 2016

Posted on	August	17, 201	6 by	victorf

DATE	TITLE	SPEAKER	
August 31, 2016	AJC Orientation and Informal AJC	Victor Calderon and	
		Keivan Stassun	
September 6, 2016		Antonio Porras	
(Tuesday)			
September 7, 2016		Victor Calderon	
September 14, 2016		Savannah Jacklin	
September 21, 2016		Laura Vega	
September 28, 2016	No AJC - Matt's Defense	1 19	
October 5, 2016		Michael Lund	
October 12, 2016		Karl Jaehnig	
October 19, 2016		Adam Szewciw	
October 26, 2016		Glenna Dunn	
November 1, 2016		Natasha McMann	
(Tuesday)			
November 2, 2016		Christina Davis	
November 9, 2016		George Vejar	
November 16, 2016		Rose Perea	
November 23, 2016	Thanksgiving Break	38 0	
November 30, 2016		John Hood	
December 7, 2016		Nicholas Chason	
December 14, 2016		Samaiyah Farid	

Guidelines

- ❖ Aim for 40-50 minutes + Questions
- * Keep your audience in mind.
- ❖ Be really familiar with the topic.
- Introduce the topic and explain why it is important
 - * Use figures and plots, if possible.
- * Explain what the "big picture" is.
- Close with a short summary and ready to answer questions

Guidelines

❖ DO's:

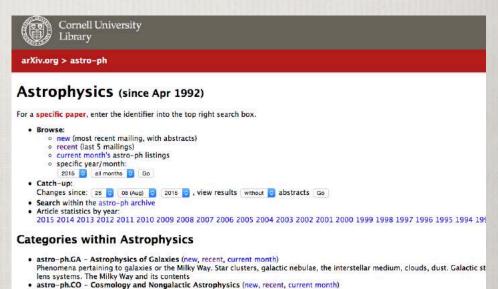
- Topic beyond a specific sub-field of astronomy
- * Know <u>all</u> the major points of the paper
- Provide background to the topic
- Nice graphics.
- Practice your talk.
- * Be ready for questions.

❖ DON'Ts:

- Review Papers
- Too many equations in one slide
- * Too much jargon
- Exceed your allotted time.

- Talk about your research
- * Talk about someone else's research

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 - * arXiv & astro-ph



Phenomenology of early universe, cosmic microwave background, cosmological parameters, primordial element abundances, extrag energy, dark matter, baryogenesis, leptogenesis, inflationary models, reheating, monopoles, WIMPs, cosmic strings, primordial blaci

Interplanetary medium, planetary physics, planetary astrobiology, extrasolar planets, comets, asteroids, meteorites. Structure and fe

Cosmic ray production, acceleration, propagation, detection. Gamma ray astronomy and bursts, X-rays, charged particles, supernov

Detector and telescope design, experiment proposals. Laboratory Astrophysics. Methods for data analysis, statistical methods. Softy

White dwarfs, brown dwarfs, cataclysmic variables. Star formation and protostellar systems, stellar astrobiology, binary and multiple

http://arxiv.org/archive/astro-ph

astro-ph.SR - Solar and Stellar Astrophysics (new, recent, current month)

astro-ph.EP - Earth and Planetary Astrophysics (new, recent, current month)

· astro-ph.HE - High Energy Astrophysical Phenomena (new, recent, current month)

astro-ph.IM - Instrumentation and Methods for Astrophysics (new, recent, current month)

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- Talk about someone else's research
 - arXiv & astro-ph
 - VoxCharta



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 - OSU The Daily Brew

The Daily Brew

Selected astro-ph abstracts for Wednesday 2015 September 2

Direct Explaint Detection with Binary Differential Imaging
Timetry J. Rodges, Alyxia Westberger, Eric E. Marnijsk, Jerof R. Maies, Laird M. Close, Kerie Montinski, Philip M. Hira, Nichan Kab [arXiv:1580.00017] [DBZ Eric]

The view from the boundary: a new void stocking method Murius Camm (1), Yaz-Chuan Cai (2), Carlos S. Frenk (1), ((1)) ECC Durbon, (2) Edinburgh) [arXiv:1509.0021041 | EDF File |

Evolution of Density Profiles in High-a Galaxies: Compaction and Quenching Isside-Out Sandor Tacchela, Avisidal Deick, C. Muscelle Carollo, Daniel Creetino, Colin DeGraf, Stame Lapiner, Nir Mandelker, Joel R. Printack (arXiv:1809002791-11000000).

Cold Deal Entitation From X-ray AGN in the SXUBA-2 Controllegy Laguey Survey: Dependence on Learninetty, Obscuration & AGN Activity
Maria Reset | Gui-McC Controllegy, R. G. McMattan, C. J. Willer, J. E. Grace, C. M. Hantion, S. Alighane-Zaich, D. M. Alexander, N. Bauter, K. E. K. Cappin, J. S. Darloy, D. Farnel, M. Javis, M. J. McChalowski, M. Pag, D. J. B. Serleh, A. M. Swintunk, M. Syrceroldin, P. P. Vander Well

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And A. M. Swintunk, M. Sander Well

And A. M. Swintunk, M. Swintunk, M. Syrceroldin, P. P. Vander Well

And A. M. Swintunk, M.

. The Controversial Star-Formation History and Helium Earlichment of the Milky Way Bulge David M. Naraf

. On the Assembly of Dwarf Galanies in Clusters and their Efficient Formation of Giobalar Clusters Pouris A. Mistari, Lazar V. Sales, Armilisa Filepich, Ruber Sancher-Janssen, Mark Vogelsberger, Dylan Nelson, Vocatio Rodriguez-Gunca, Paul Torrey, Lass Hemquis. [arXiv:18040000011 | PDF Pile 1

. Spitzer IRAC Photometry for Time Series in Crowded Fields

S. Coldi Noval, A. Cond. J. C. Vez, C. Beldman, G. Byslen, S. Corey, M. Fanesagh, B. S. Guid, C. B. Hendersen, R. W. Pogge, Y. Shanaraki, B. Wilsing, W. Ziu, A. Udukki, R. Polsski, M. Fandak, M. K. Stymatski, J. Skorone, P. Merk, S. Krekroski, Z. Wynykowski, P. Hendersen, G. Petropetei, J. Sarpetei, K. Utarysk arXiv:1509.00037+1 (PDF File)

Portugal. (10) Universidad Autónoma de Madrid, Madrid, Spaini arXiv:1509.00180+1 (PDF File)

T.J. Noor, R. Penn, M.A. Toorpoo, H. Penner, S. Stephen, D. Bein, J.T. Deepoy, L. K. Mergan, H.S. Troman, J. Suckie, C. M. Bran, H. Strier, D. Correton, A. Chysoscosso, H.M. &Villers, M. Fich, M.G. Hane, G. Masse, J.C. Morran, C. Nazzo, S. Oggia, N. Perzoo, D. Polychra, K.O. Sedana, A.J. Righy, C. Suji, L.J. Sammer, D. Born, M.J. Curis, T. Tomers, M. Posilore, S. A. Penders, P. Bueins, J. Giffusesson, C.J. Dois, A. Dens, P. Fifter, G. A. Fulier, A. G. Olib, S. J. Obros, T. Hill, D. Helssone, G. Gorca, S.N. Leaguere, S.L. Larssico, G. Marca, O. Ngoa, Deng. J. E. Pender, C. Wood, J. S. Refer, G. G. Howest, J. S. Refer, G. H. Soward, R. Ngoay, S. Wagan, A. R. Ngoay, S. W. L., Wellerig, G. J. Hyan, M. Zur arXiv:1509.00318+1 (FDF File)

. Uncovering the nucleus cardidate for NGC 253 G.I. Günthardt, M.P. Agisero, J.A. Camperi, R.J. Diaz, P.L. Gornez, G. Bosch, M. Schirmer

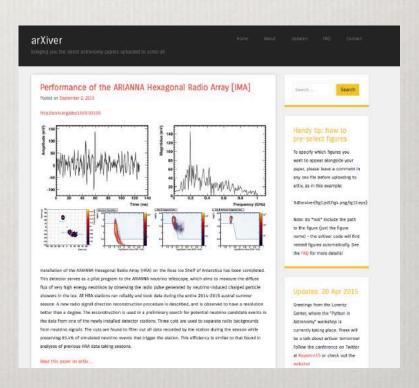
 Radio Jet Fredback and Star Formation in Heavily Obscured Quasars at Redshifts -4.3-3, 1: ALMA Observations Carel J. Locaddo, Mark Lacy, Arry E. Kirrball, Andrew Blain, Mark Whittle, Belinda Wilkes, Dan Stere, Rm Condon, Minjin Kim, Robotto J. Assef, Chao Wei Toal, Andreas Efrathico, Sury Jones, Poter Estenbard, Carrlo Bridge, Jirwen Wu, Colin J. Loasdain, Kristen Jones, Tom Jurnet

aXiv1599000241 [PDFP]-

. The "shook up" galaxy NGC N79: the complex interplay between HL activity and environment N. Shafi, T.A. Costerico, R. Morganti, S. Colafrancesco, R. Bost [arXiv:1509.00350x1 | PDF File |

http://www.astronomy.ohio-state.edu/Coffee/coffee.html

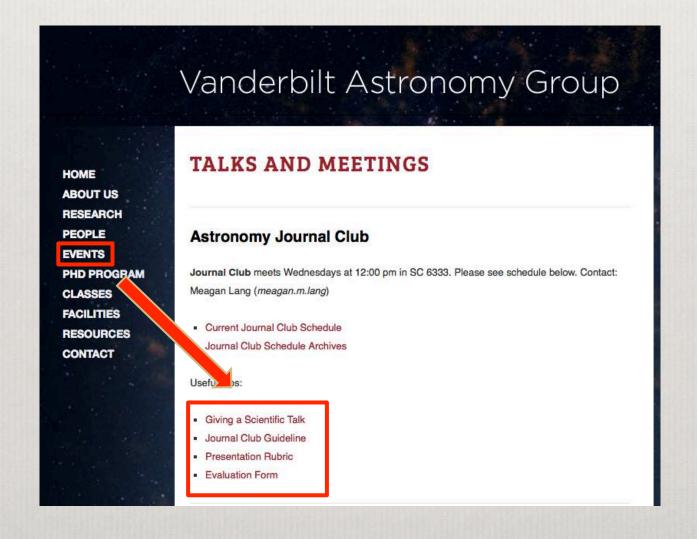
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Other resources



Other resources

- Vanderbilt-Astronomy PBworks page:
 - http://vanderbiltastro.pbworks.com
 - * A repository for important info and other resources.
 - Open an account on PBworks and request access to the repository
 - Or send me an email and I'll invite you to the repository.

Summary

- Good for practicing giving talks
- ❖ 40-50 minutes + Questions
- * Know the key points of the paper
- Background and terminology
- Use the available resources

QUESTIONS?