

Closing Remarks

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Which flowers are live or artificial? How do you identify?



<http://ameblo.jp/artflower-akanbi/entry-11466047322.html>

Close-up View

UV Irradiation

Smell

Wait for 10days

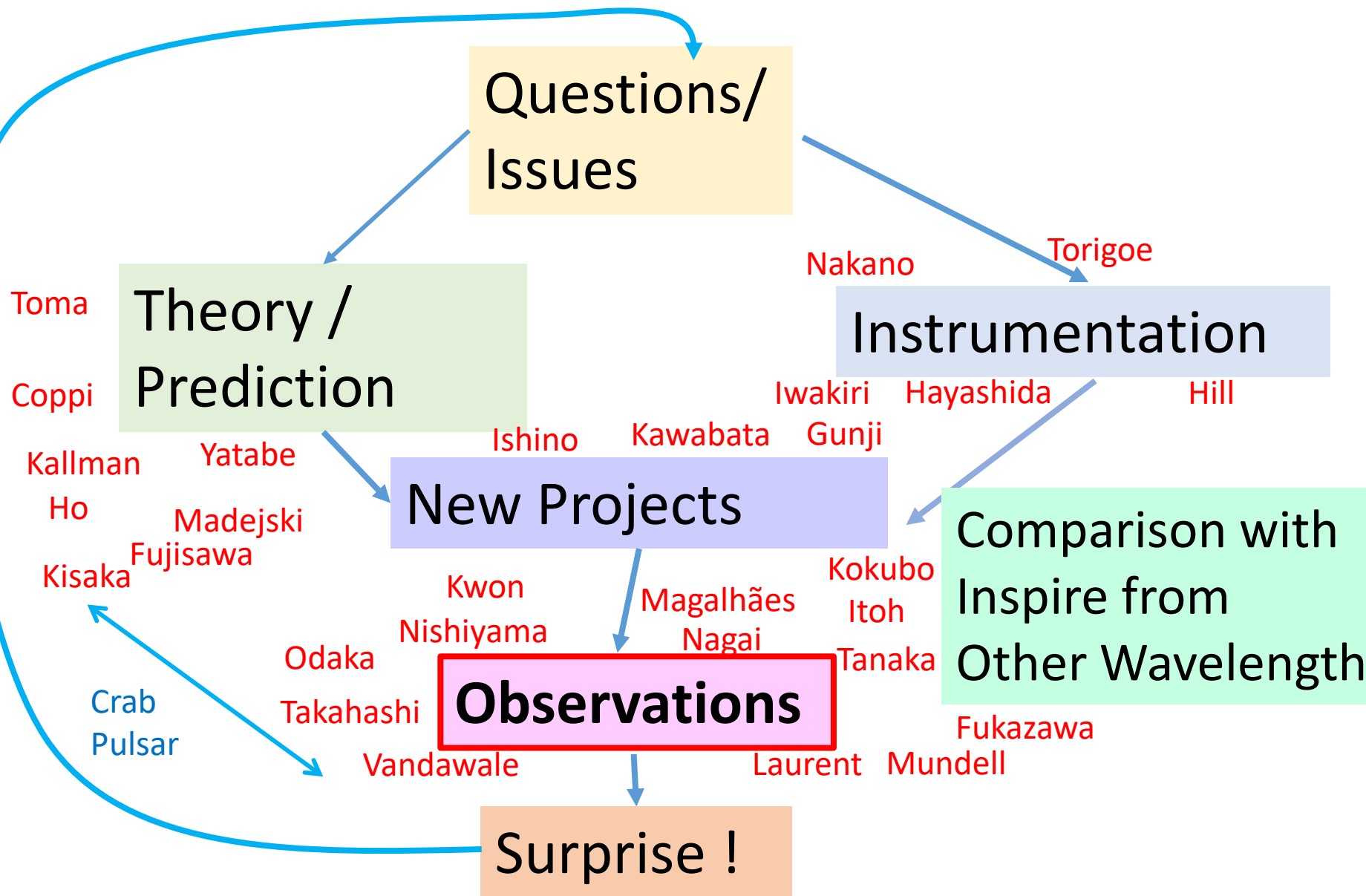
→ Imaging

→ Spectroscopy

→ **Polarimetry**

→ Timing

Summary of the Presentations



X-ray Polarimetry Workshop

2004Feb@SLAC

Jointly organized by the Kavli Institute for Particle Astrophysics and Cosmology (KIPAC),
NASA/GSFC Laboratory for High Energy Astrophysics (LHEA),
and the Smithsonian Astrophysical Observatory (SAO)
To be held at SLAC, Stanford, California,
9-11 February 2004

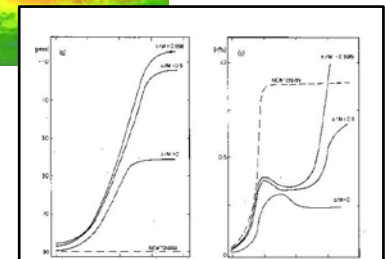
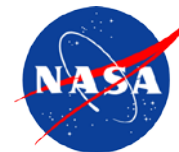
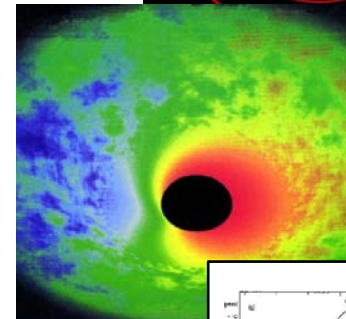
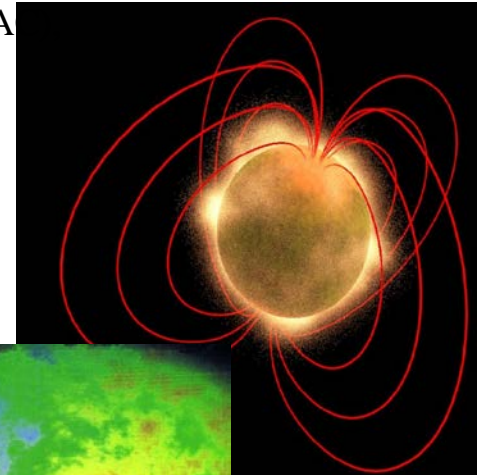
The last few years have seen renewed effort toward achieving real measurements of polarization in the X-ray and hard X-ray band. These include several recent proposals to NASA for dedicated polarimetry missions in addition to the polarimetry efforts on RHESSI and future missions in Japan and Europe.

The goals of this workshop are: to provide a forum for discussion among experimental groups; to stimulate work by theorists in this field; and to build support in the broader high energy astrophysics community for polarimetry.

Scientific Organizing Committee

| | | | |
|--------------------|---------------------------|-------------------|-----------------------------|
| Tim Kallman | NASA/GSFC | Greg Madejski | Stanford |
| Eric Silver | Center for Astrophysics | Herman Marshall | MIT |
| Ronaldo Bellazzini | INFN | Mark McConnell | University of New Hampshire |
| Roger Blandford | Stanford | Rob Petre | NASA/GSFC |
| Stephen Boggs | Space Sciences Laboratory | Juri Poutanen | University of Oulu |
| Enrico Costa | IASF, Roma | Herbert Schnopper | Center for Astrophysics |
| Andrew Fabian | University of Cambridge | Rashid Sunyaev | MPI |
| George Fraser | Leicester University | Jean Swank | NASA/GSFC |
| Alice Harding | NASA/GSFC | Martin Weisskopf | NASA/MSFC |
| Phillip Kaaret | Center for Astrophysics | Nick White | NASA/GSFC |
| Steve Kahn | Stanford | | |

<http://heasarc.gsfc.nasa.gov/docs/heasarc/polar/polar.html>



https://www-conf.slac.stanford.edu/xray_polar/reg/abslist.asp

During this 13 years

1/2

- Swift, Kanata, Suzaku, Fermi, MAXI, ALMA, NuStar, ASTROSAT, ASTRO-H(Hitomi) were realized. Most are still active.
- Balloon experiments: PHENEX, PoGO-Lite, X-Calibur were conducted.
- Soft γ ray polarization was measured with INTEGRAL for a few sources and several GRBs
- GAP detected polarization from 3 GRBs, followed by the launches of Tsubame and POLAR.
 - RHESSI GRB results was the only(?) observational results on X- γ polarimetry in 2004 SLAC conference.
- Simultaneous optical/UV polarization measurement with Kanata with Fermi, Suzaku etc.

During this 13 years

2/2

- ASRTOSAT CZTI, Hitomi SGD are providing hard X – soft γ -ray polarimetry results.
- GEMS, PRAXyS, PolariS, LEAP etc. were proposed and instrument development for them were extensively progressed.
- IXPE, POLIX, SPHiNX, XIPE are going to be launched /selected.
- Progress in theory and instrumentation have been highly activated.

Great Progress and Surprising Results,
together with some unpredicted accidents and decisions.

Next 13 years

- Future is bright in particular polarimetry, as we have many things to do.
- even though we will get old by 13 years.
- Let's Prepare and Enjoy coming Data and Surprise!

Thanks to Kitaguchi-san, the LOC members, the attendance for the nice workshop and

For Sake

