High-resolution

Summary High-resolution working group

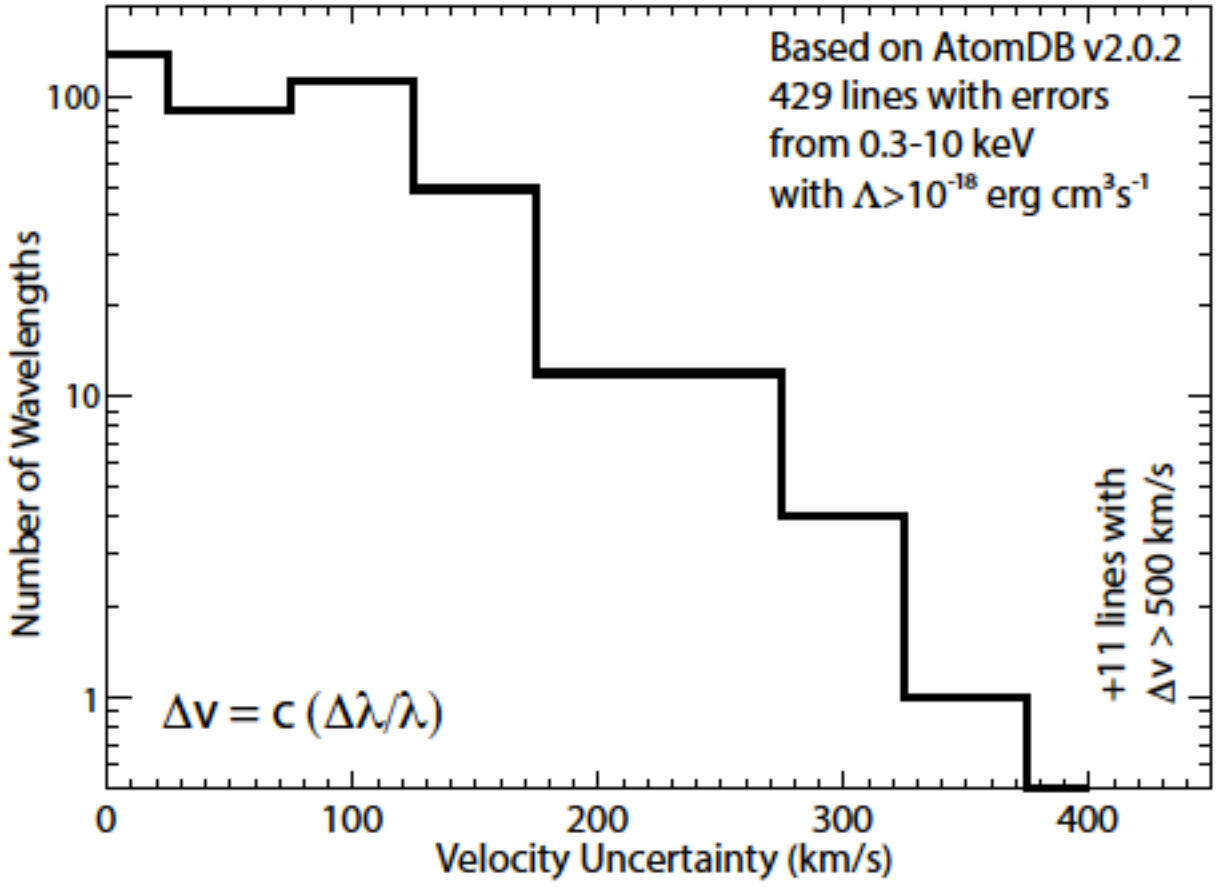
- Present:
- Vadim Burwitz, François Pajot, Gabriele Betancourt-Martinez, Peter Kretschmar, Laura Brenneman, Jelle Kaastra (session 1),
- Jeremy Drake, Herman Marshall, Vinay Kashyap, Vadim Burwitz, Jelle Kaastra (session 2)

Hitomi aftermath

- Hitomi:
  - was rush, could have been handled better;
  - early coordination needed between instrument teams, software teams and ground calibration/in-flight calibration plan
- lesson learned for XARM, Arcus, Athena:
  - Atomic needs crucial (see Perseus SXS spectrum), at least as important as other calibration aspects

Specific atomic data needs:

- Fe-L
- Ni-L
- wavelengths weaker lines
- theory & associated lab work
- code comparison
- better DR line calculations
- Impact atomic data inaccuracies on derived astrophysics



(from Smith & Brickhouse 2014)

Other items discussed

- White paper / collection of results to support getting funding is needed
- Calibrating calibration sources with high-res instrument
- Lab measurements of contaminants
- More coordinated high-res observations