Standard Candles Working Groups
1 - White Dwarfs
2 - Isolated Neutron Stars

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SC1: White Dwarfs

- Objects
  - HZ 43
  - Sirius B

- Physical Models
  - White dwarf Atmosphere Models
    - Parameters (nH, eff. T, log(g), absolute Flux, abundance)
    - nH well constrained \( \leq 10^{18} \) cm\(^2\)
    - Most up-to-date atmosphere codes used (Tübingen, TLUSTY)
    - pure hydrogen good fit (very little Helium required)
    - better possibly stratified Hydrogen + Helium model \( \rightarrow \) needs to tested

- Instruments
  - ROSAT
  - EUVE
  - Chandra LETGS
SC1: White Dwarfs

- Status of Models / Parameters for HZ43 and Sirius B
  - Available fits are done and complete see below:
    - Pease et al. SPIE, 2000 → LETG effective area
    - Beuermann, Burwitz, Rauch A&A, 2006 → corr. sugg. to LETGS eff area, ROSAT and EUVE

- To Do
  - Check differences Beuermann / Kaastra model fluxes for Sirius B
  - Implement corrections for LETGS effective area.
  - EUVE: check why effective area is too low
  - ROSAT improvements to instr. params. need to implemented (Beuermann et al.)