

White dwarf (WD) and Isolated Neutron Star (INS) Working Group Status

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Goals of the Working Group

- Identify and characterise WD and INs standard candle objects
 - **WDs:**
 - HZ43
 - Sirius B
 - GD153
 - **Objects**
 - RX J1856.5-3754 (Work horse Spectrum)
 - PSR B0656+14
 - 1RXS J214303.7+065419 (=RXJ2143) eROSITA



Principal use of the Objects

○ HZ43

- Gain calibration for both Chandra HRC-I and HRC-S
- PSF monitoring on both Chandra HRC-I and HRC-S
- NICER

○ RX J1856.5-3754

- Contamination monitoring for Chandra ACIS
- Low energy PSF < 0.35 keV for Chandra
- XMM
- NICER
- EP



IACHEC WD + INS Wiki page

<https://wikis.mit.edu/confluence/display/iachec/White+Dwarfs+and+Isolated+Neutron+Stars>

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Durchsuchen ▾ Anmelden Suchen

White Dwarfs and Isolated Neutron Stars

Extras ▾

4 Hinzugefügt von [Eric D Miller](#), zuletzt bearbeitet von [Vadim Burwitz](#) am May 21, 2019 22:58 ([Änderung anzeigen](#))

Working Group

- **Models**

RX J1856.5-3754 based on the CHANDRA LETGS + HRCS Data

delchisqr = 1 (= 1 sigma for 1 parameter)

- ***tbabs*bbbodyrad***
chiqs = 692.6
dof=1251
chired = 0.55367
nh = (7.24 +/- 0.34) * 1e19 cm-2
kT = (62.38 +/- 0.38) eV
norm = (1.580 +/- 0.064) * 1e5
- ***phabs*bbbodyrad***
chiqs = 696.0
dof=1251
chired = 0.55636
nh = (7.37 +/- 0.35) * 1e19 cm-2
kT = (62.43 +/- 0.38) eV
norm = (1.576 +/- 0.065) * 1e5

