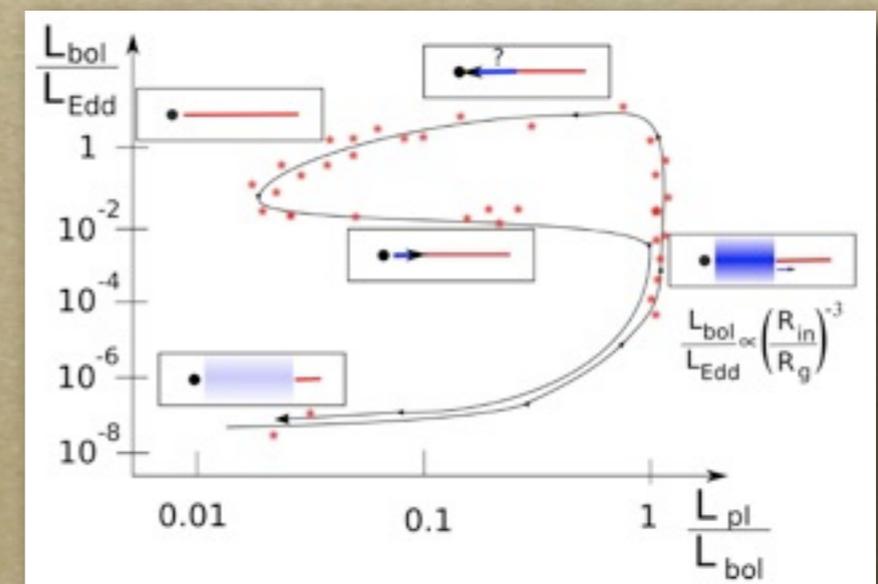


Advancements in Compact Objects (LMXB) since last IUG

Tomaso Belloni (INAF-OAB)

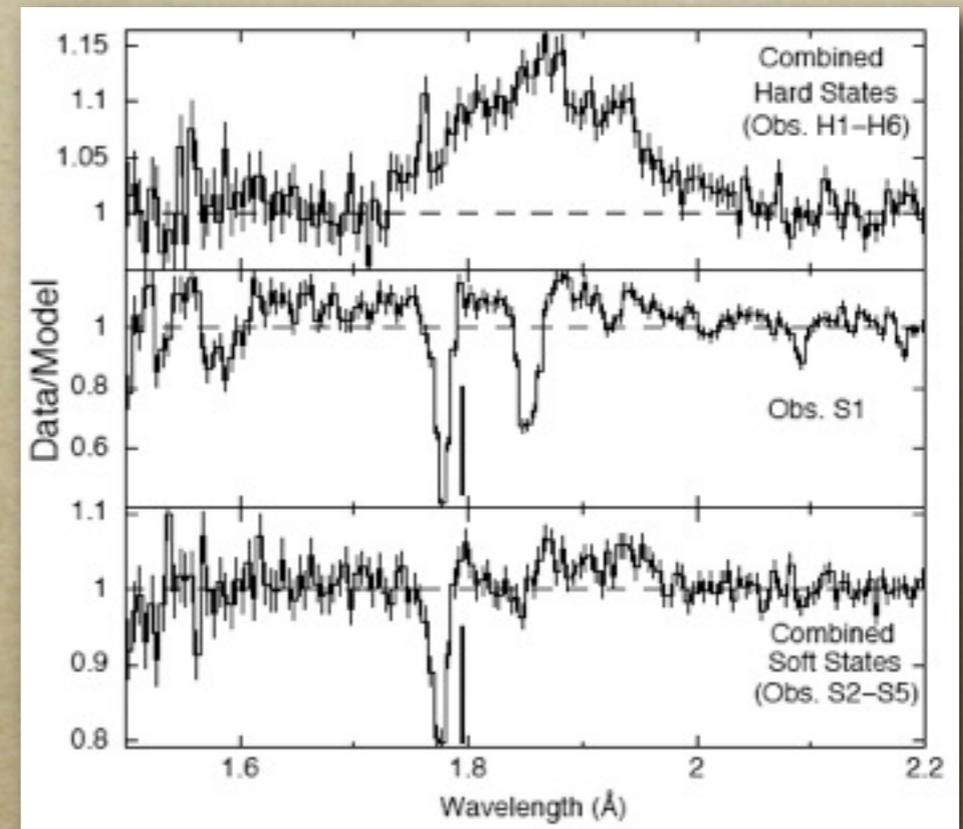
1. Inner disk radii

- *Does the inner radius recede at low \dot{M} ?*
- *Not above $10^{-3} L_{Edd}$ (Reis et al.)*
- *We cannot say (Hiemstra et al.)*
- *Below 10^{-2} - $10^{-3} L_{Edd}$ (Cabanac et al.)*
- *Still unclear...*



2. Gone with the wind

- *GRS 1915+105 Chandra observations*
- *“Hard” state: jet*
- *“Soft” state: wind*
- *Comparable mass loss*
- *Wind drives away jet*

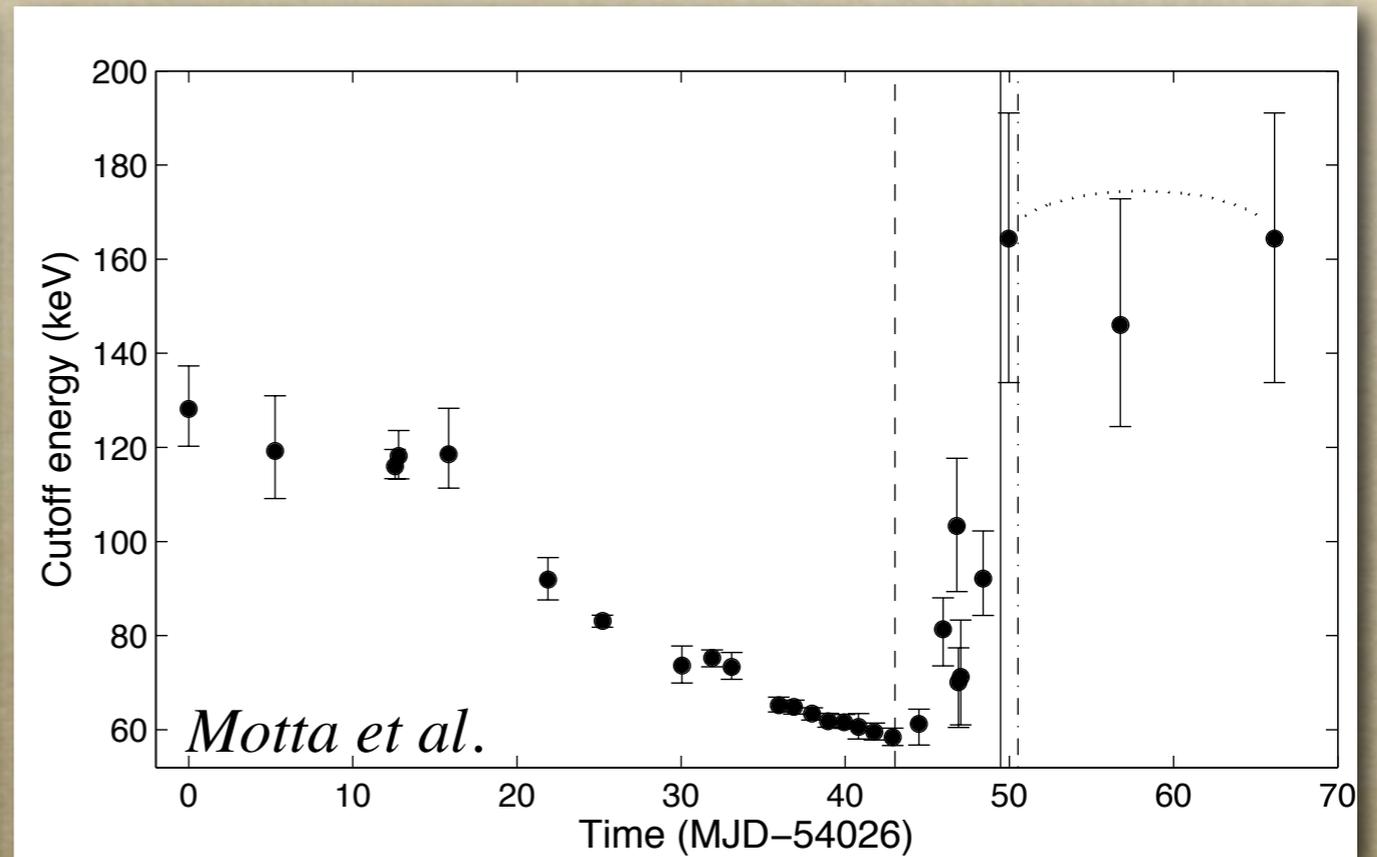
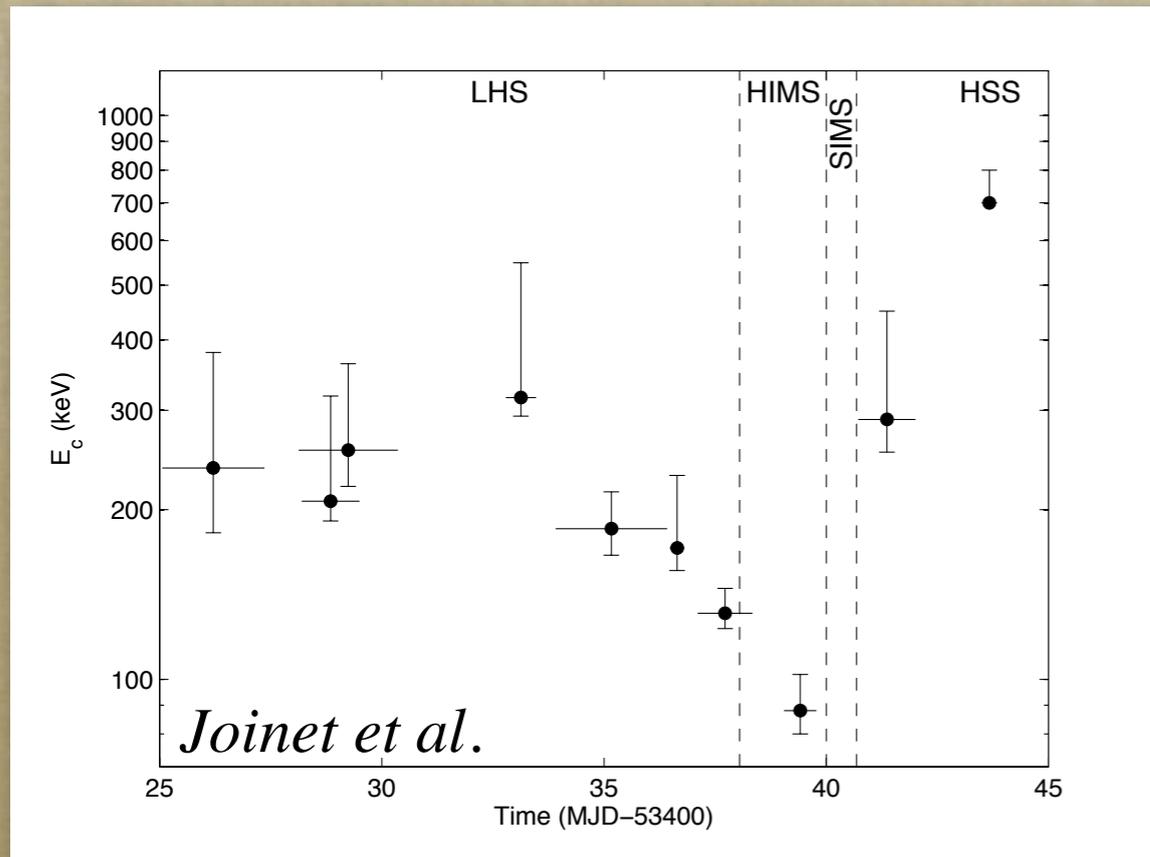


Neilsen & Lee

3. High-energy cutoff

- *What happens to it during transitions?*
- *GX 339-4 XMM+INTEGRAL* Caballero Garcia et al.
- *GX 339-4 XTE+INTEGRAL* Del Santo et al.
- *GRO J1655-40 XTE+INTEGRAL* Joinet et al.
- *H 1743-322 XTE+INTEGRAL* Capitanio et al.
- *GX 339-4 RXTE only* Motta et al.

3. High-energy cutoff (cont'd)



4. Broad iron lines in NS LMXB

○ *SAX J1808.4-3658*

○ *Ser X-1* *Bhattacharyya & Strohmayer*

○ *4U 1636-53* *Pandel et al.*

○ *GX 340+0* *D'Ai et al.*

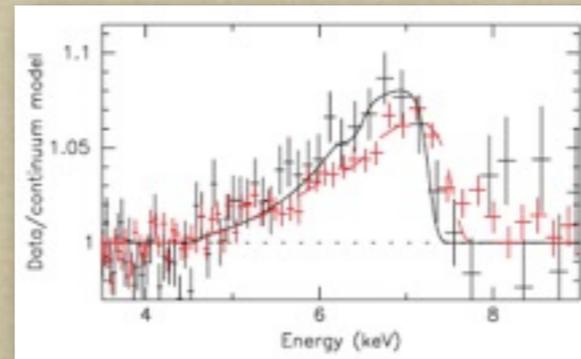
○ *Inner disk radius measurement*

○ *Comparison with timing* *Altamirano et al. (in prep.)*

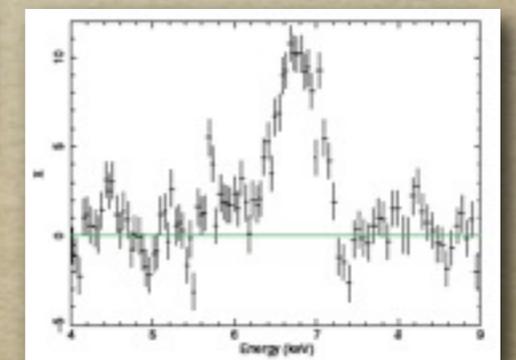
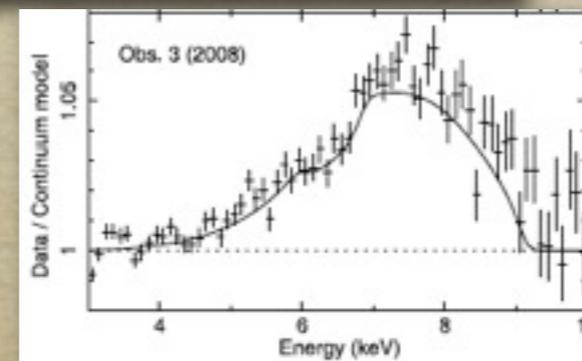
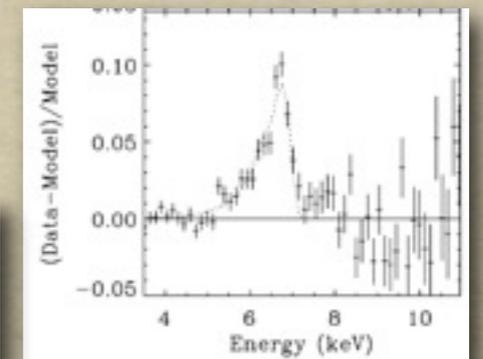
4U 1705-44

Reis, Fabian & Young (on Monday)

Di Salvo et al. (today)



*Cackett et al.
Papitto et al.*



INTEGRAL papers

<i>Topic</i>	<i># papers</i>
<i>Radio pulsars</i>	<i>6</i>
<i>Magnetars</i>	<i>4</i>
<i>Neutron-star LMXB</i>	<i>6</i>
<i>Neutron-star HMXB</i>	<i>17</i>
<i>Black-hole binaries</i>	<i>8</i>
<i>Cataclysmic variables</i>	<i>5</i>
<i>Other (surveys, unid.)</i>	<i>9</i>

Refereed articles since June 2008