

HMXB 4U 1700-377: ...a status report

A. Orr, ESA, ESTEC

M. Falanga, CEA-Saclay

M. Cocchi, IASF, Roma

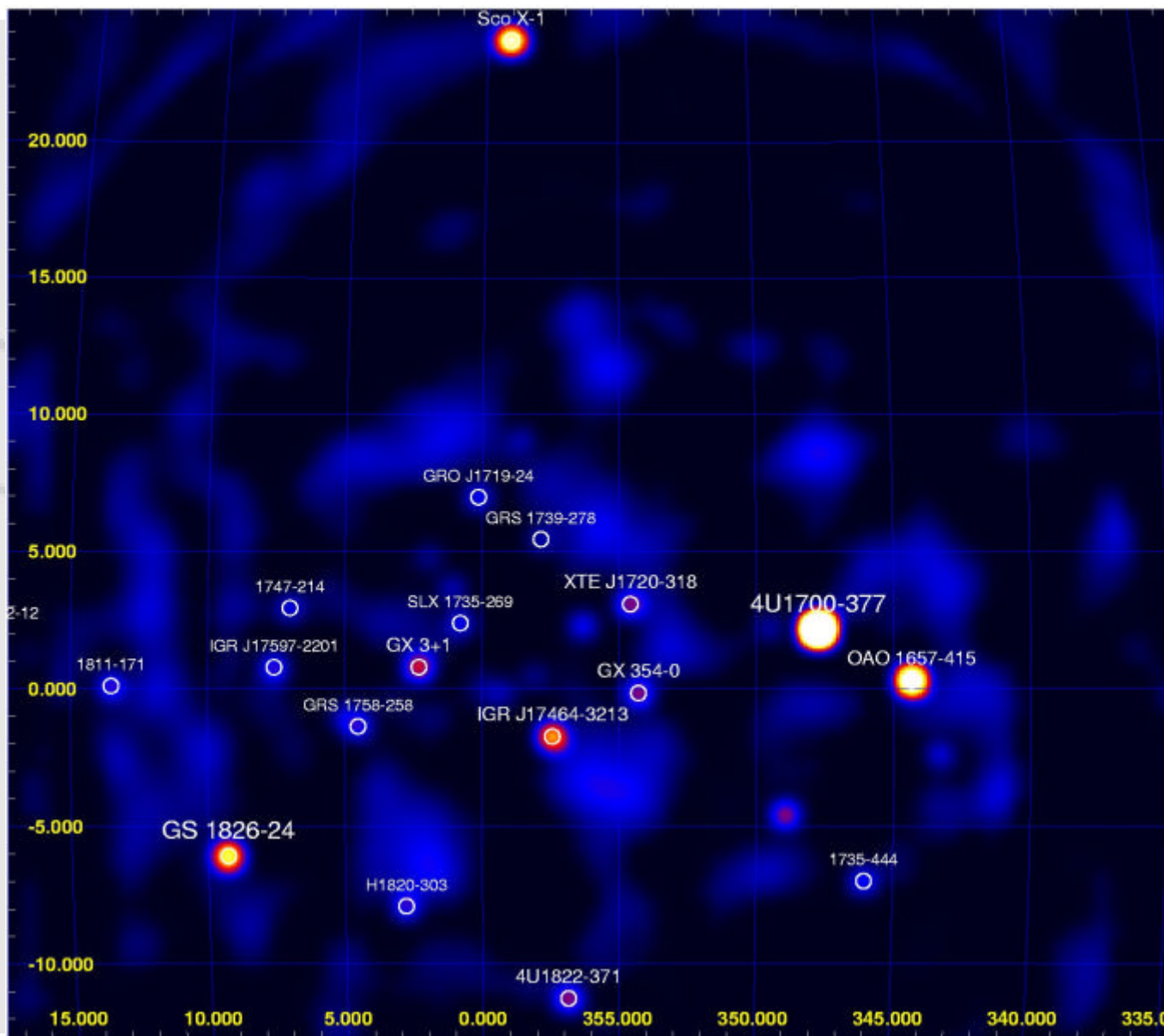
J.M. Torrejon, Univ. Alicante

P. Laurent, CEA-Saclay

Rev. 53 SPI
20-40 keV
(Paizis et al.)

4U1700-377:
(l,b) ~ (348, 2)

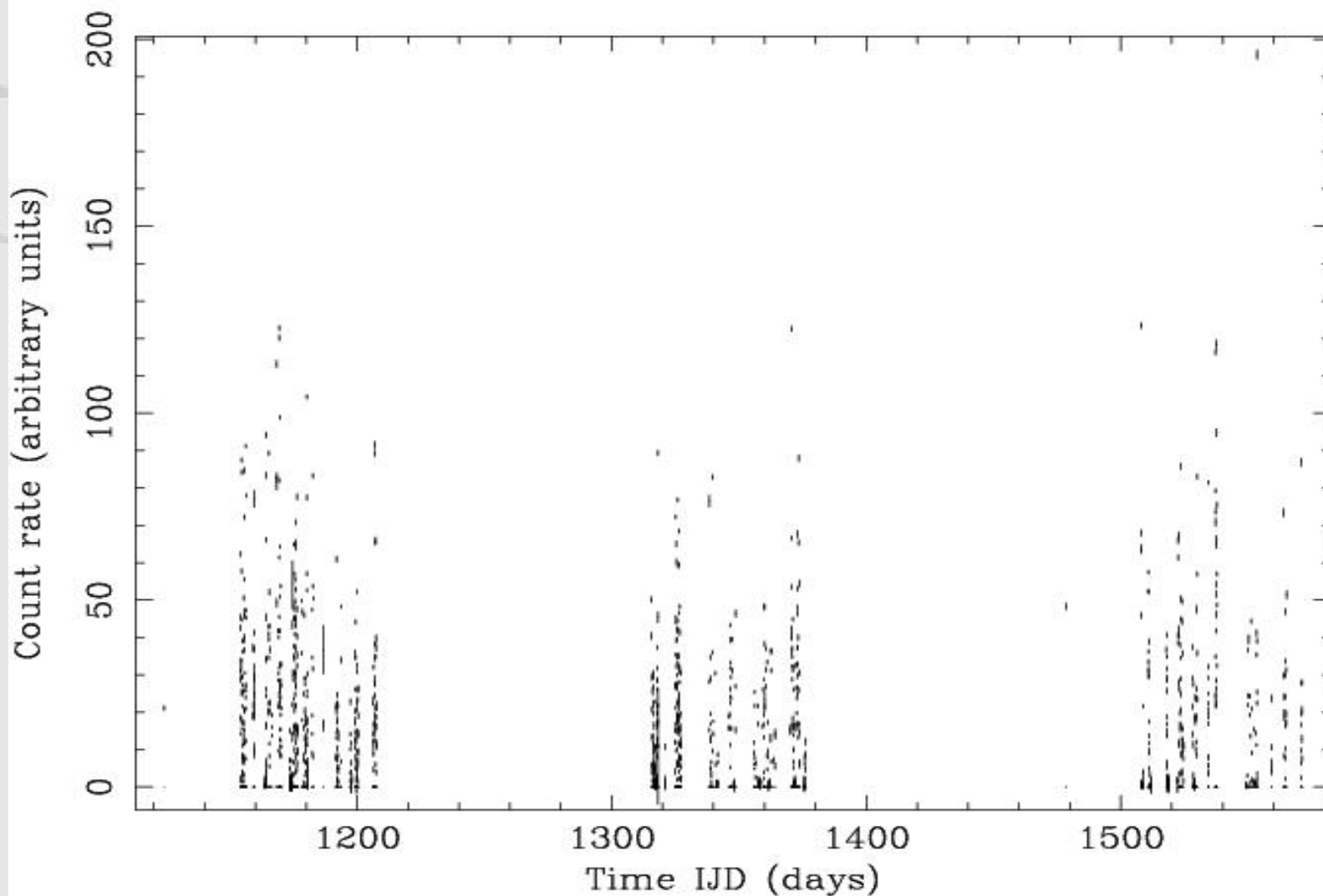
Always bright
and well
covered by
Integral CP!



Lightcurve analysis

- ★ ISGRI: $<12^\circ$, 20-35 and 35-150 keV, 1130 SCW
- ★ JEM-X: $<4^\circ$, 5-20 keV, 104 SCW
- ★ SPI: still to be done...

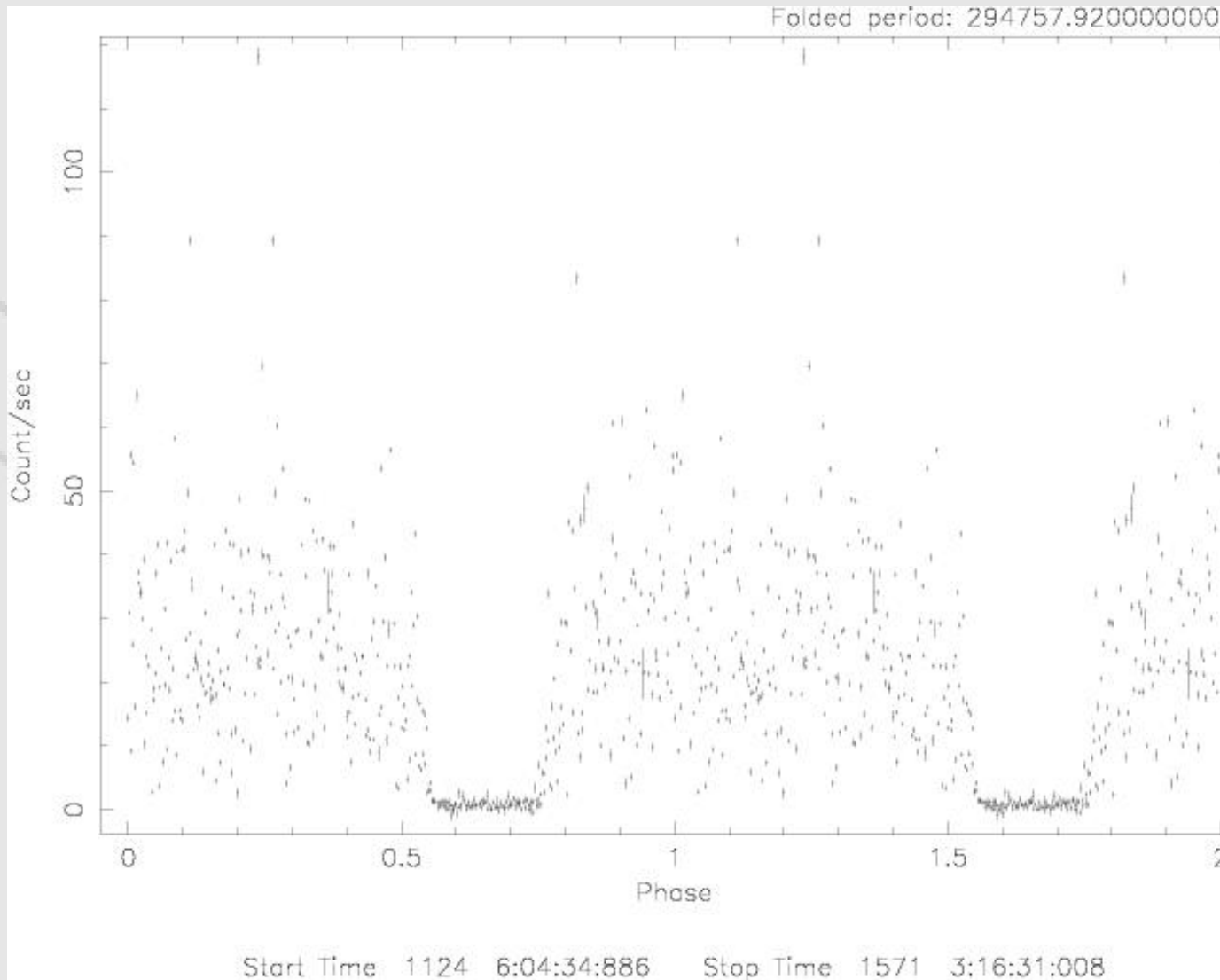
4U 1700-377 : 20-35 keV light curve



BIS 20-35 keV
folded light curve
(1130 SCW)

M. Falanga et al.
(in prep.)

(n.b. arbitrary T_0)

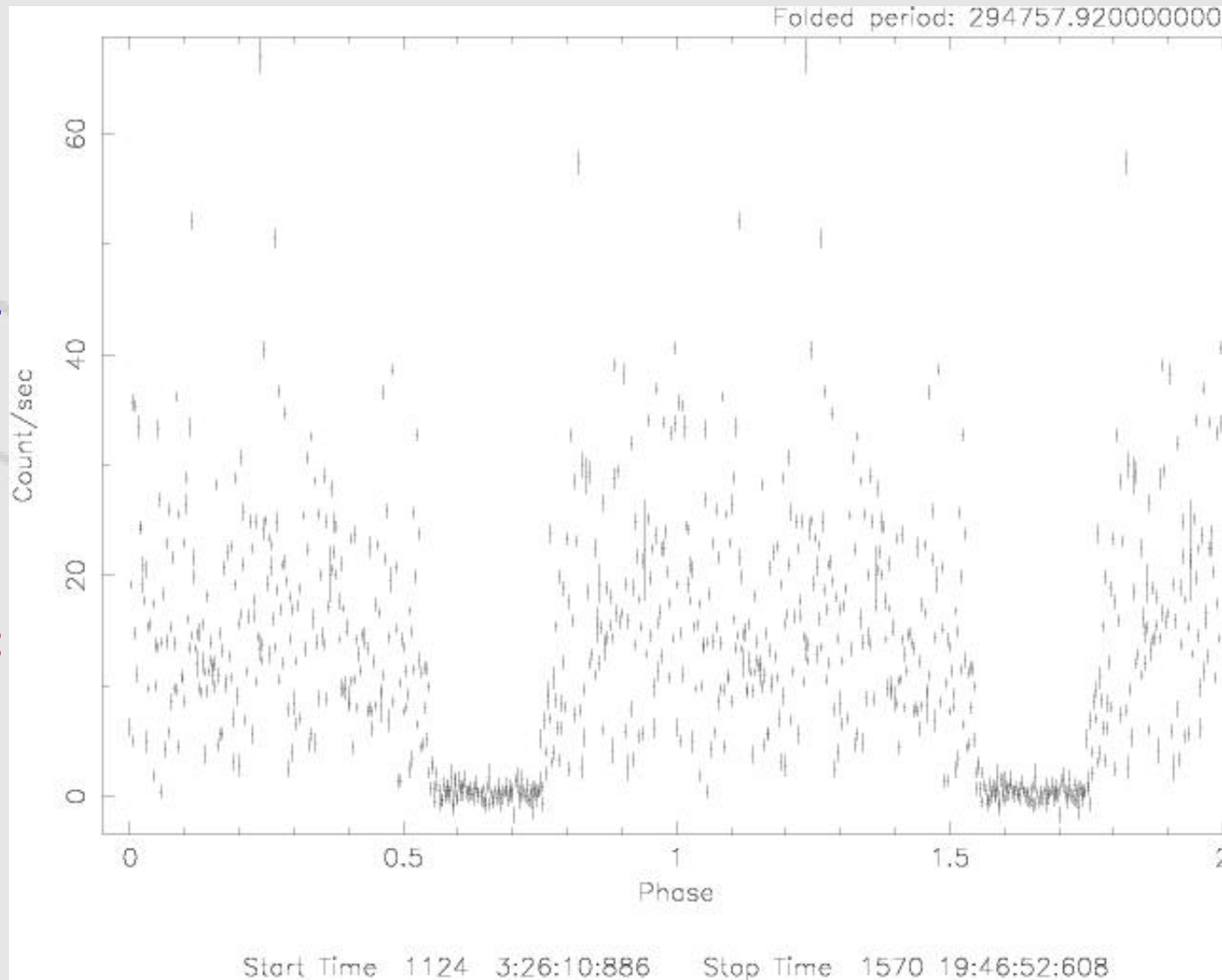


BIS 35-150 keV
folded light curve

(M. Falanga et al.
in prep.)

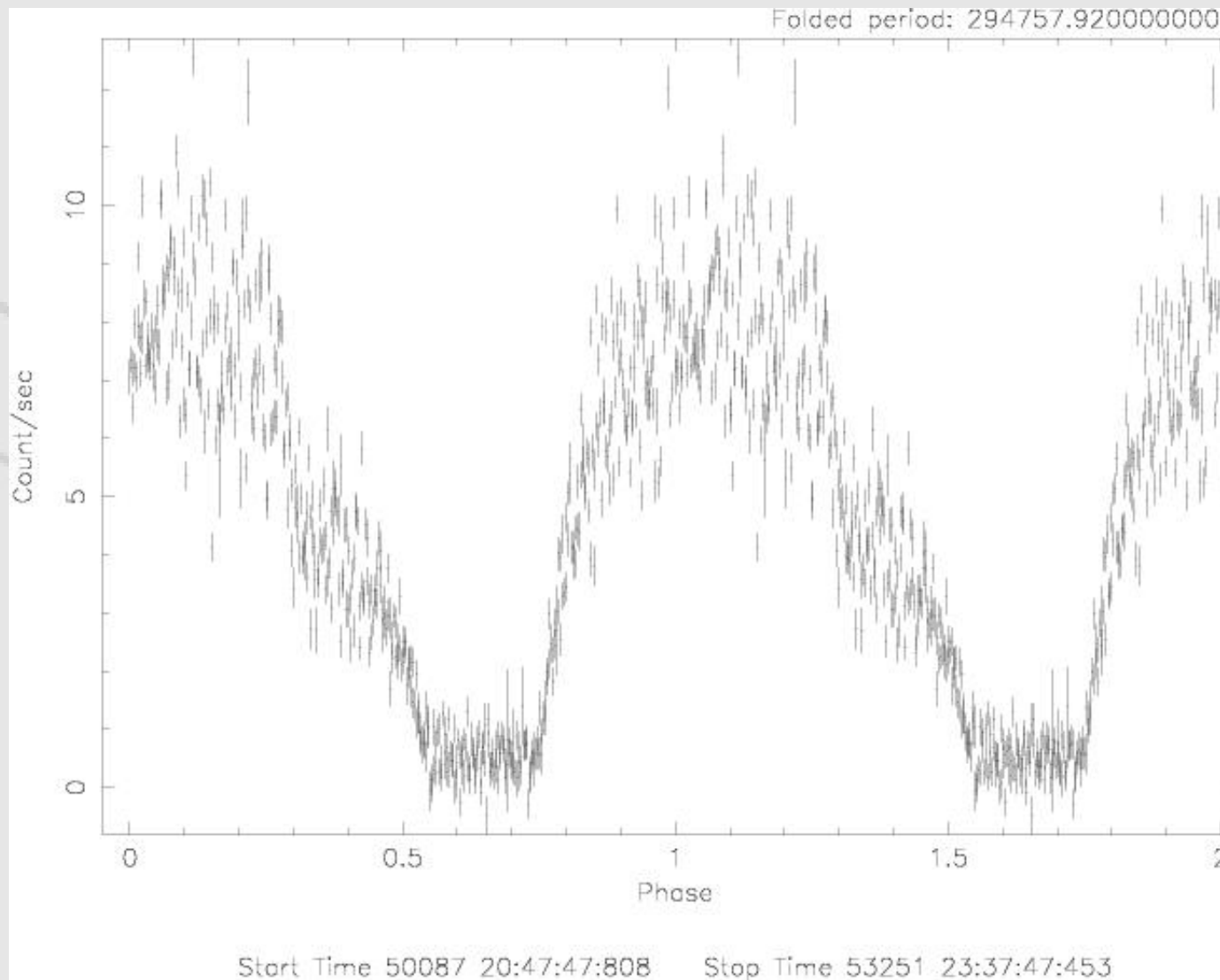
At high E, "dip"
is well defined
and ~symmetrical:

→ Geometry of
binary system



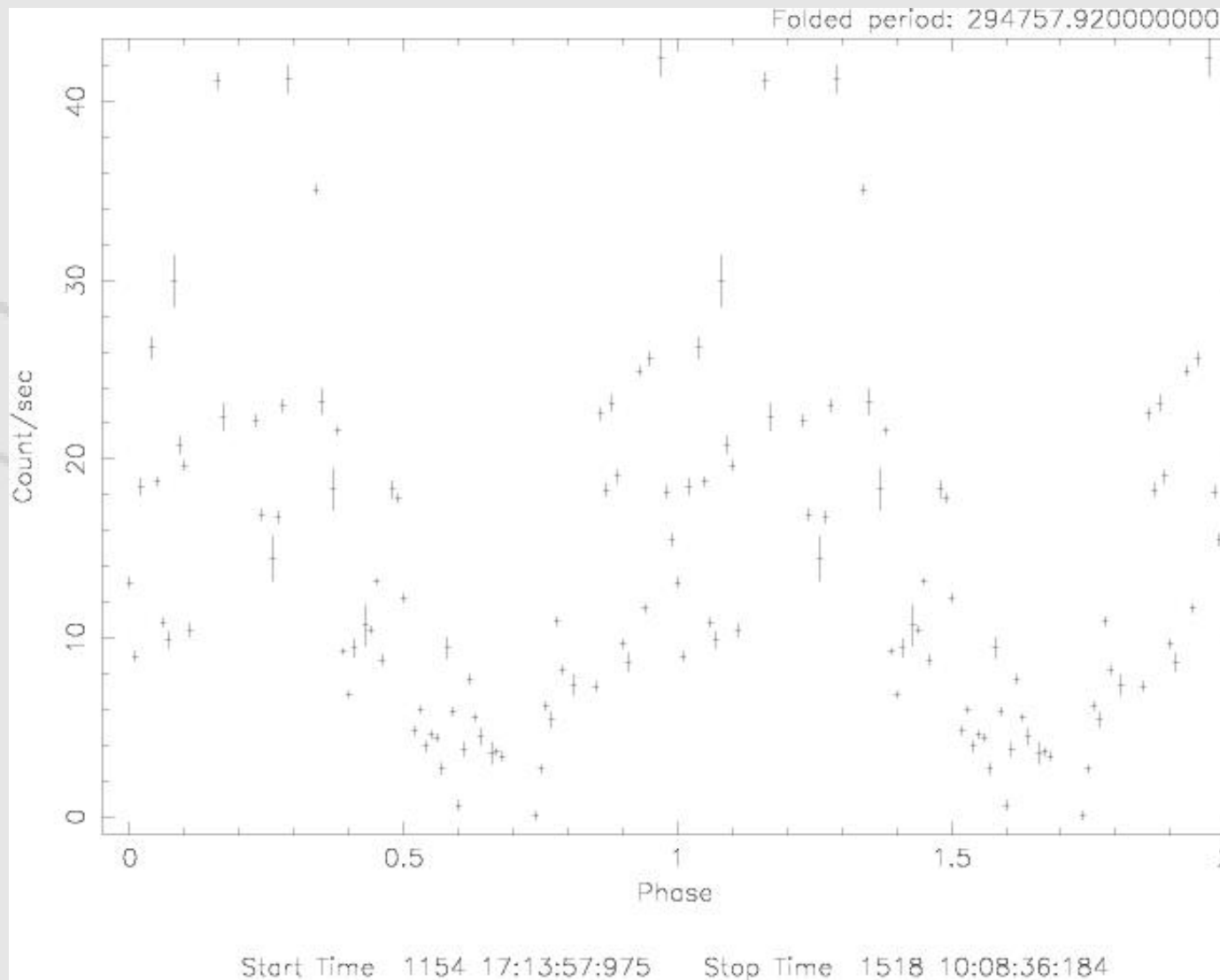
ASM 2-10 keV
folded light
curve
8.7 years data

at low E, "dip" is
not symmetrical:
→ influence of
stellar wind !



EM-X
-10 keV folded
light curve
(104 SCW)

(M. Falanga et al. in prep.)



Data preparation for spectral analysis:

(Core Programme and public Open Time data)

Season	Revolutions
Spring 2003	36, 37, 38, 46, 47, 49, 50, 51, 52, 53, 55, 56, 57, 58, 59, 60, 61, 63
Autumn 2003	100, 101, 103, 116, 118, 119, 120
Spring 2004	154, 164, 165, 167, 168, 169, 171, 173, 174, 175, 179, 181, 183, 185
Autumn 2004	217, 226, 229, 231, 232*, 233, 234, 235, 240, 241, 243

* 2 Crabs (20-60 keV) !

Rev 232

Model CompTT

20-200 keV

 $T = 19.2 \pm 0.4$ $\tau = 3.00 \pm 0.06$

red. chi sq. = 2.1

