Novae as supersoft X-ray sources in Andromeda

- The Joy of Painting -

Martin Henze

for the M31 nova monitoring collaboration
Almost The real Joy of Painting
Attention will be rewarded
Introducing Andromeda

Artist's impression

Credits: Titian (~1550)
Introducing Andromeda
X-ray monitoring of the M31 central region

5 arcmin
The Joy of Painting the big picture: Correlations


(a) Unobservable region: turn off < turn on
(b) blackbody kT [eV]
(c) turn-on time [d]
(d) expansion velocity [km/s]
The Joy of Painting the big picture: Correlations

The Joy of Painting the big picture: Correlations

Population studies

Population trends – the usual suspects
Individual novae – the unusual suspects
Extremely fast recurrent nova M31N 2008-12a

Question Time: The Joy of Chocolate

a) Young lady's name?

b) Why X-rays so important for nova science?

c) Which artist?

d) Why nova population studies so powerful and valuable?

e) My name?

Dr. ... who?