The ____ massive

The ____ luminous

The ____ distant

The most massive

The most luminous

The most distant

<u>most</u> or <u>-est</u>

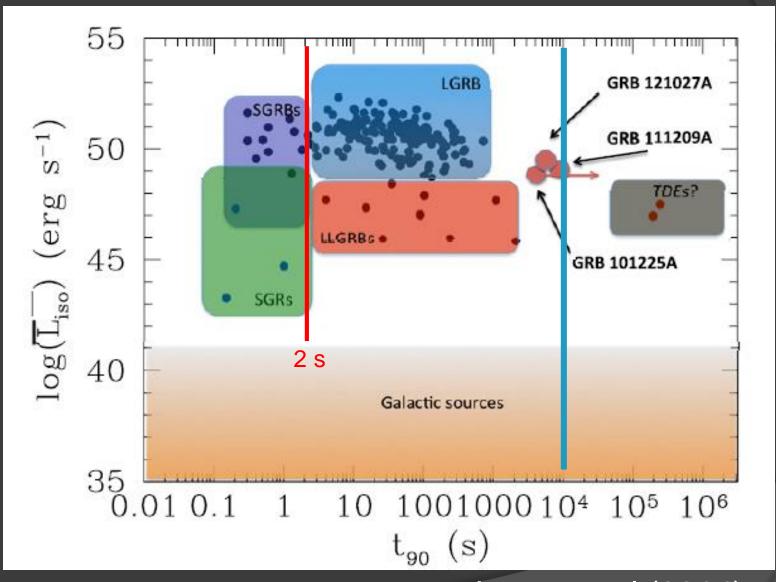
Always have something interesting in it!!

7 hours duration's

Ultra-long Gamma Ray Burst

GRB 111209A



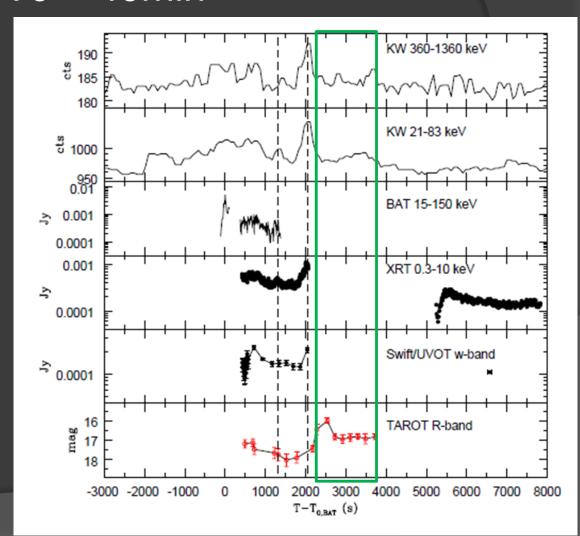


Levan et al.(2014)

What I have...

NIR data taken at T0 + 40min

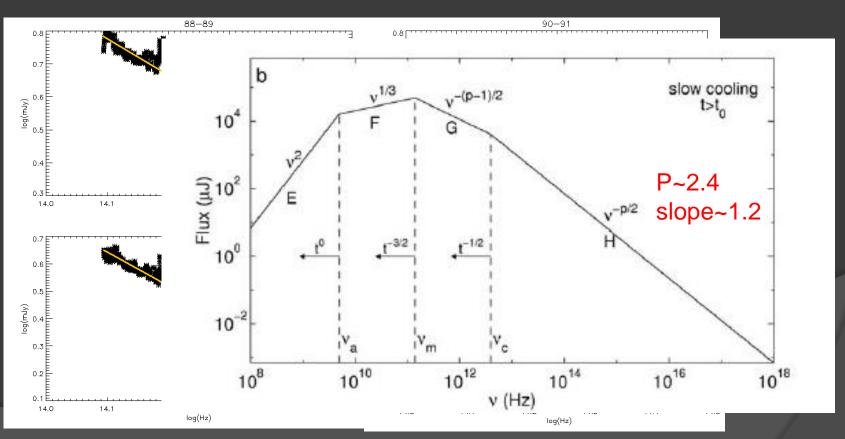
From IRTF(0.8-2.4um)



Stratta et al.(2013)

What I found

The spectrum shows standard model's slow-cooling. = afterglow emission



Thank you!