

# Are there multiple FRB populations?

- **Yes!** ...and they come from different types of NSs / BHs / WDs / etc.
- Plus!: there are surely new types of FRB-like signals still to be discovered
- Kind of ...but they are just different burst types from the same source type
- No! ...the burst might look different but the physics is basically the same

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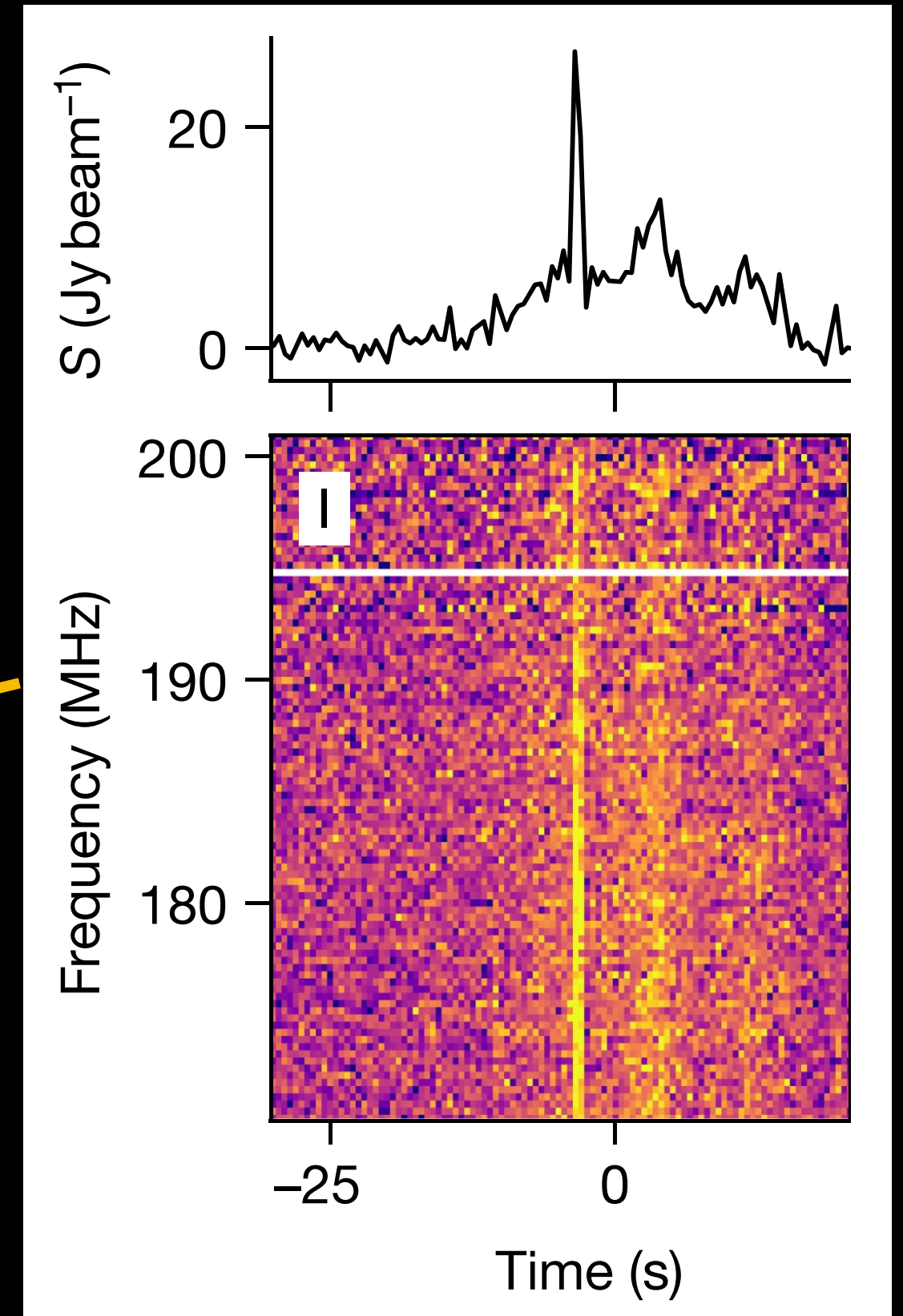
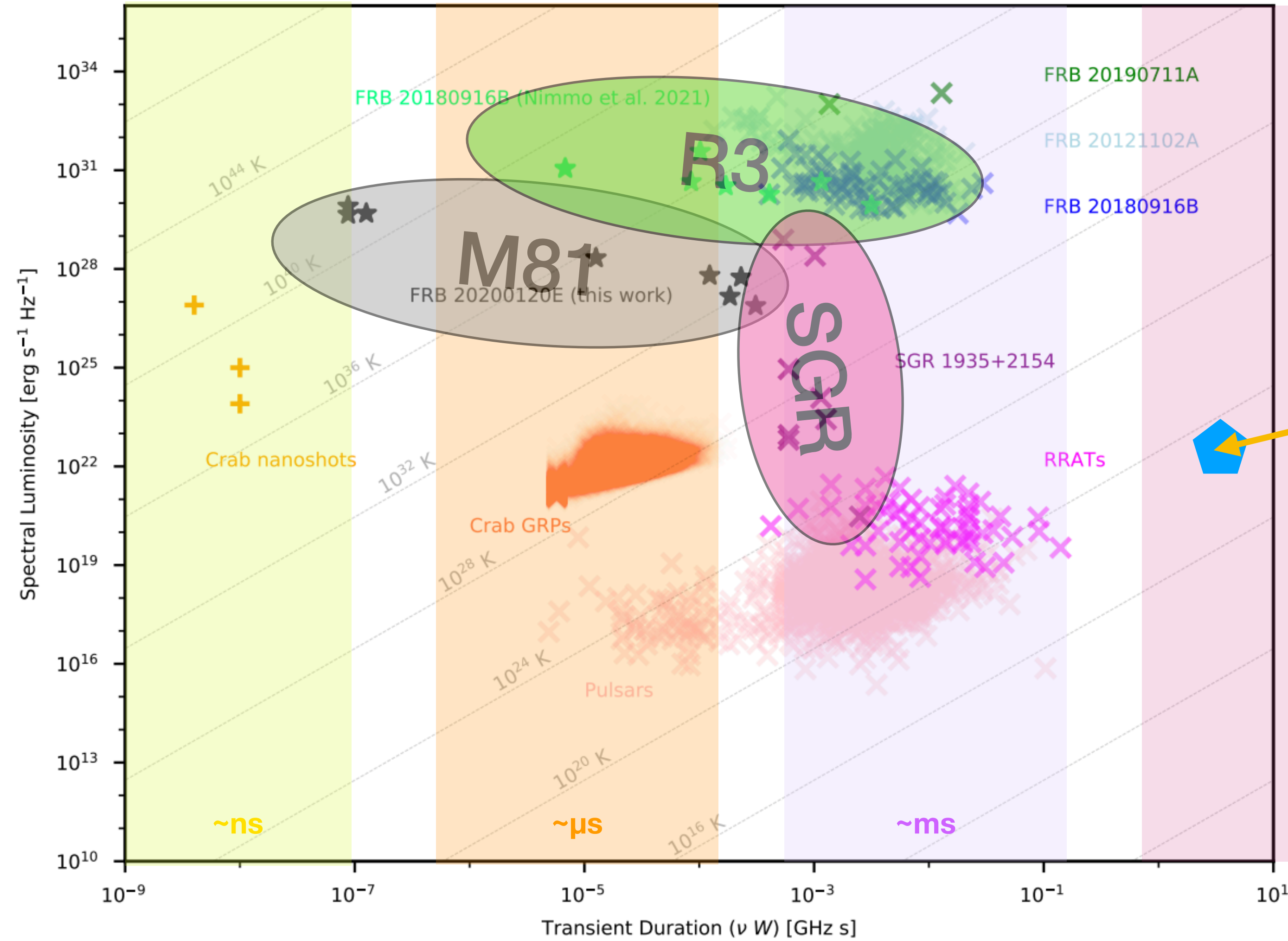
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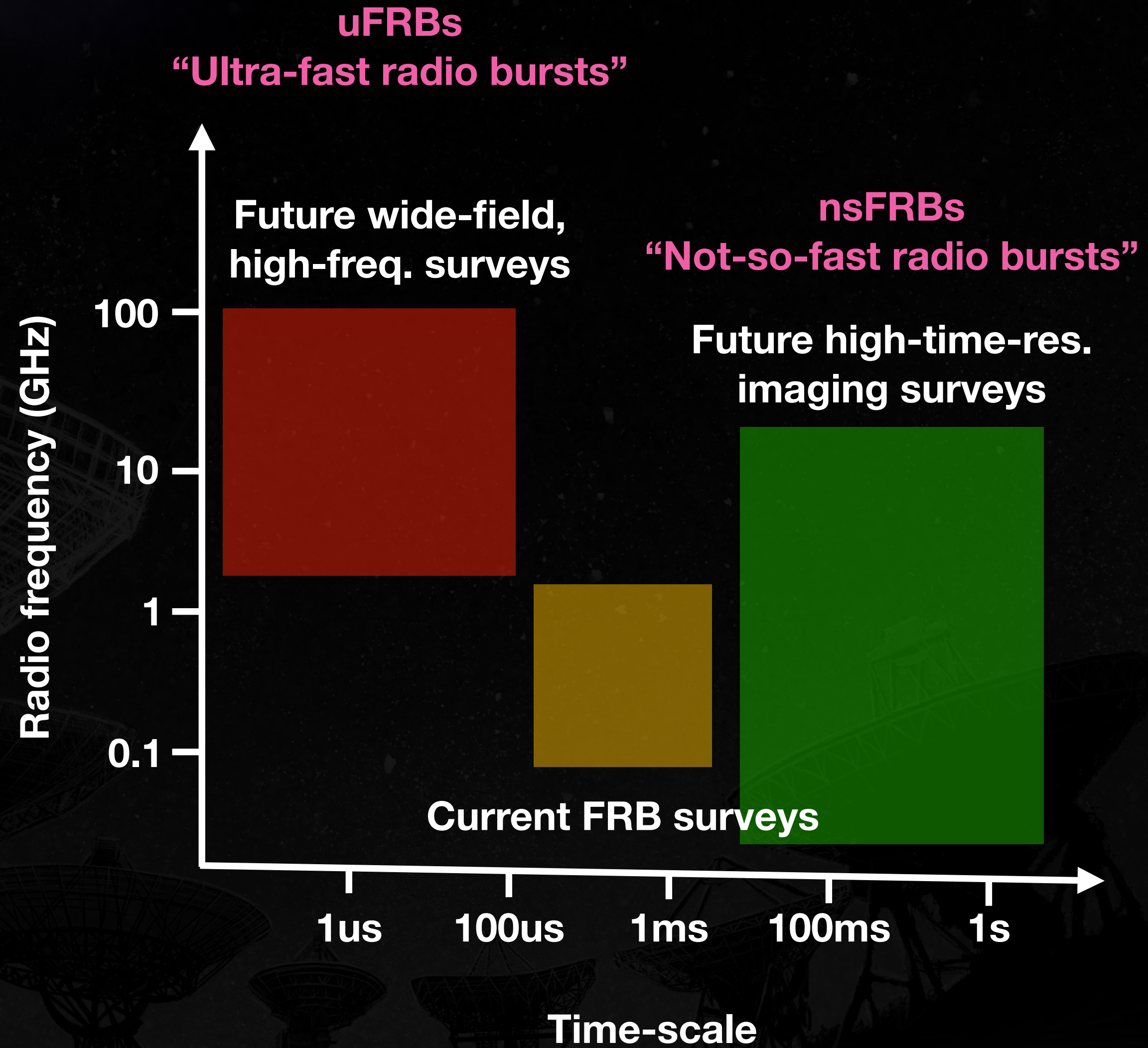
# Filling in the transient phase space

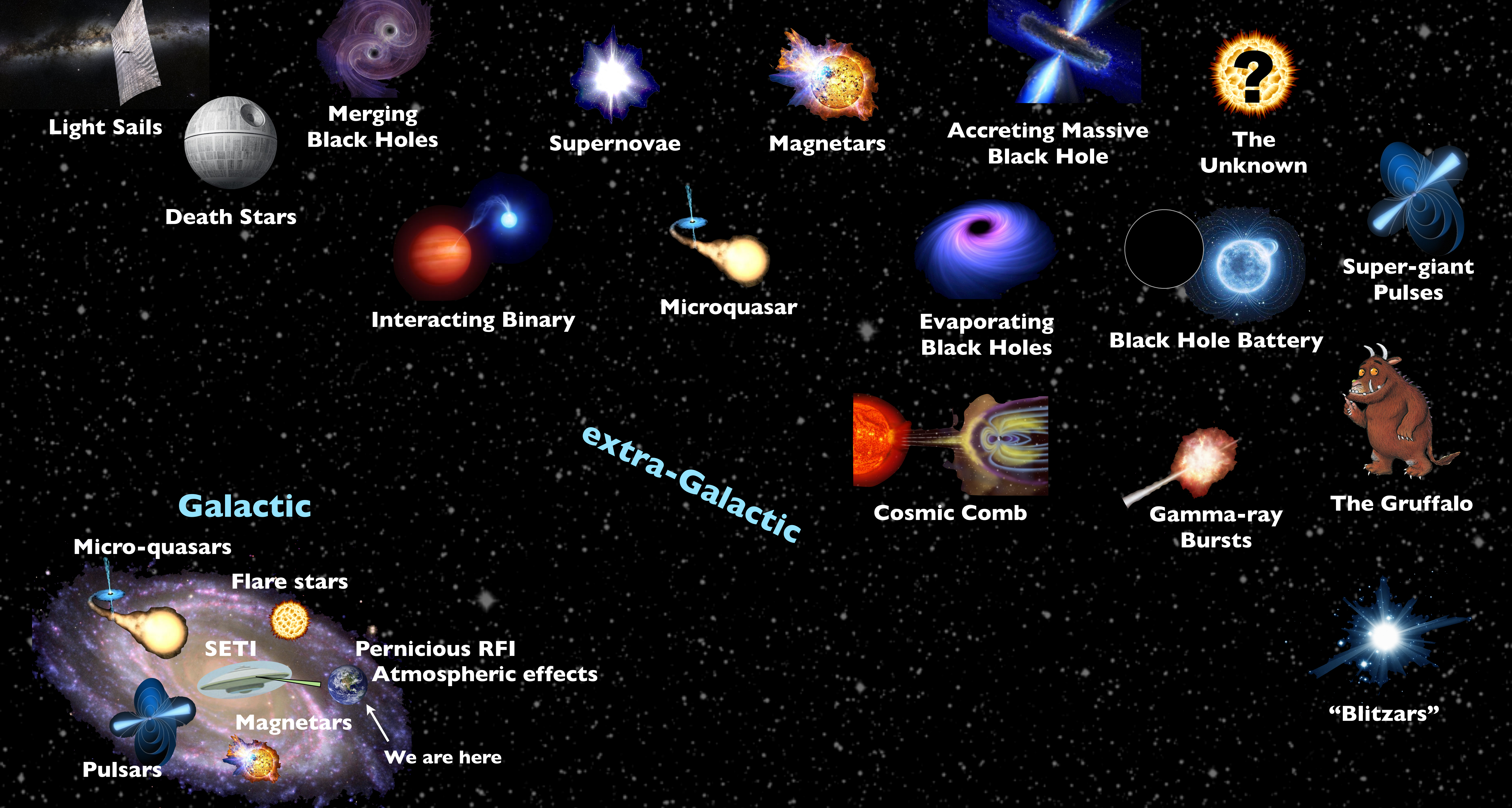


Hurley-Walker et al. 2022

Nimmo

# Boldly go where no telescope has gone before





**Light Sails**



**Death Stars**

**Merging Black Holes**

**Supernovae**

**Magnetars**

**Accreting Massive Black Hole**

**The Unknown**

**Super-giant Pulses**

**Interacting Binary**

**Microquasar**

**Evaporating Black Holes**

**Black Hole Battery**

**extra-Galactic**

**Cosmic Comb**

**Gamma-ray Bursts**

**The Gruffalo**

**Galactic**

**Micro-quasars**

**Flare stars**

**SETI**

**Pernicious RFI**

**Atmospheric effects**

**Magnetars**

**We are here**

**Pulsars**

**"Blitzars"**

Figure: Hessels

