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### Filling in the transient phase space



Nimmo

### Boldly go where no telescope has gone before





Radio frequency (GHz)

nsFRBs "Not-so-fast radio bursts"

> **Future high-time-res.** imaging surveys

**Current FRB surveys** 

100us 1ms 100ms **1**S **Time-scale** 



Light Sails

Merging Black Holes

Supernovae

#### **Death Stars**

( R. )

**Interacting Binary** 

### Galactic

Micro-quasars

Flare stars

SETI

Pernicious RFI Atmospheric effects

Magnetars

We are here

Pulsars

**Figure: Hessels** 

### Magnetars

### Accreting Massive Black Hole



The Unknown

> Super-giant Pulses

#### Microquasar

extra-Galactic

### Evaporating Black Holes

DIACK HUIES

**Black Hole Battery** 

Cosmic Comb

Gamma-ray Bursts The Gruffalo

"Blitzars"

frbtheorycat.org; Platts et al. 2018





