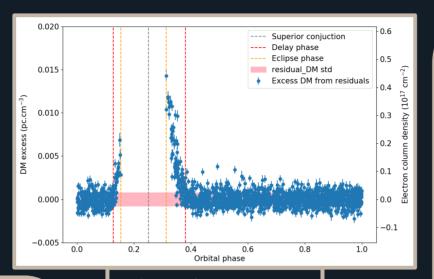
Spider binaries with the Nançay Radio Telescope



Pair of pulsar + non degenerate companion:

- \bullet $P_{spin} < 20 \text{ ms}$
- $10^{-4} < M_c < 0.5 M_{sun}$
 - P_{orb} < 2 days



Eclipse of J2055+3829

19 spiders observed with the NRT:

 \rightarrow since 2004 → about 1 obs every ~1.3 days, typically 1h long

The NRT sample enables us to study group properties!

Why are spiders interesting?

- Timing for PTAs
- Evolution process of milisecond pulsars
- Wind interaction & high energy emission
- Neutron star properties
- **Eclipse phenomenology:**
 - **Process**
 - Conditions to see them
 - Shared characteristics
 - Link with orbital stability



