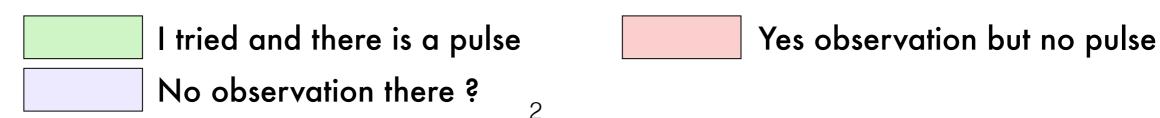
## Pulsars in the DC1 and Vela in particular

**Marion Spir-Jacob** 

## 12 pulsars in the DC1

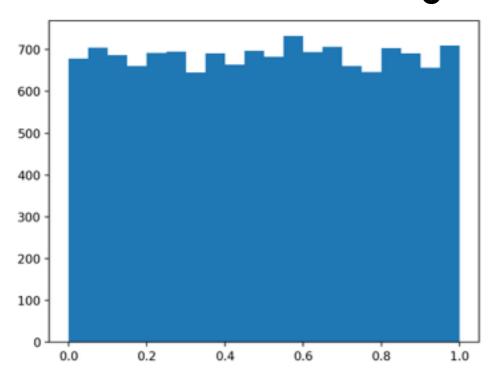
Number of observations in the DC1 for the 12 pulsars

	Offset max 1°	Offset max 2°	Offset max 3°	Offset max 4°	Offset max 5°
Crab	0	0	0	0	14
Vela	0	9	18	27	45
Geminga	0	0	0	14	14
PSR J0007+7303	0	0	0	0	0
PSR J0614-3329	0	0	0	0	0
PSR J1028-5819	9	9	27	45	63
PSR J1048-5832	0	18	27	45	54
PSR J1413-6205	19	19	76	95	114
PSR J1836+5925	0	0	0	0	0
PSR J2021+3651	0	30	45	75	105
PSR J2229+6114	0	15	15	45	75
PSR J1809-2332	0	38	38	57	133

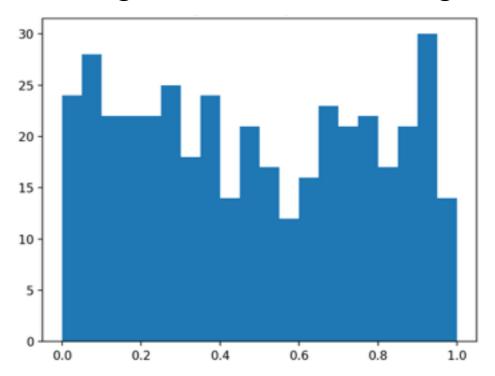


### Phasogram of PSR J1413-6205

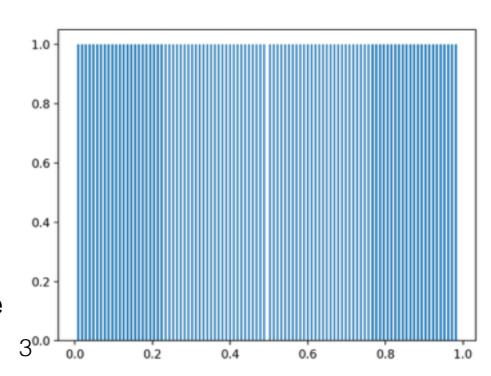
All 19 observations, all events < 0.2 deg



All 19 observations, all gammas < 0.2 deg



Histogram made out of the 'PHASE' column from the PSR J1413-6205 phase curve fits file

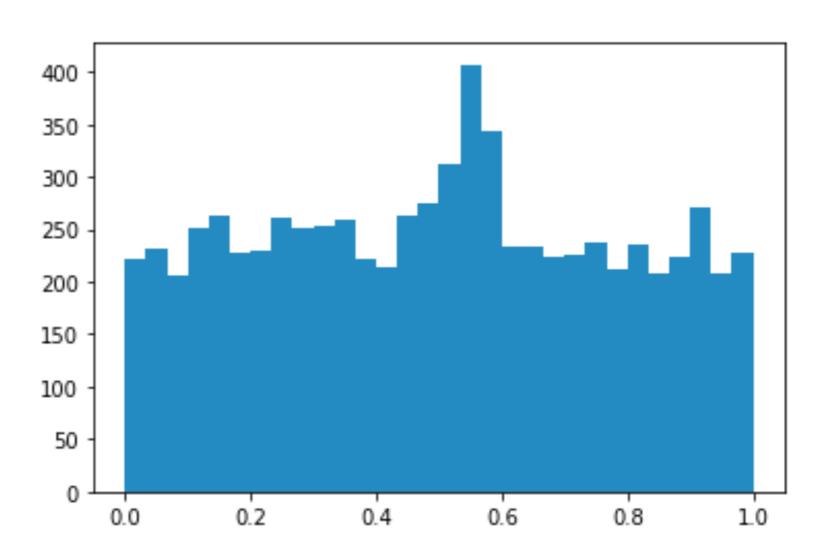


#### 12 pulsars in the DC1

- There are supposed to be 12 pulsars in the DC1
- Their parameters (name, position, spectral law, phasing terms) are in model\_galactic\_pulsars.xml
- Yet when I look around the position, few pulsars actually have observations
- Among the ones that do, I can't reconstruct the pulse, except for Vela
- What is happening?

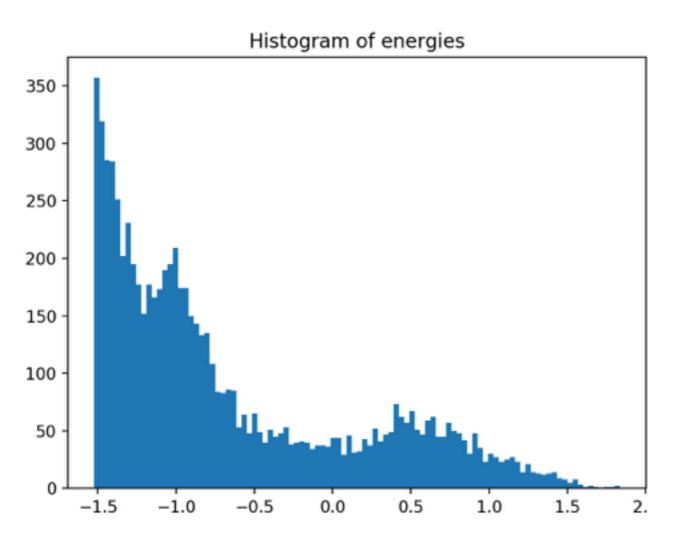
#### Vela phasogram from the DC1

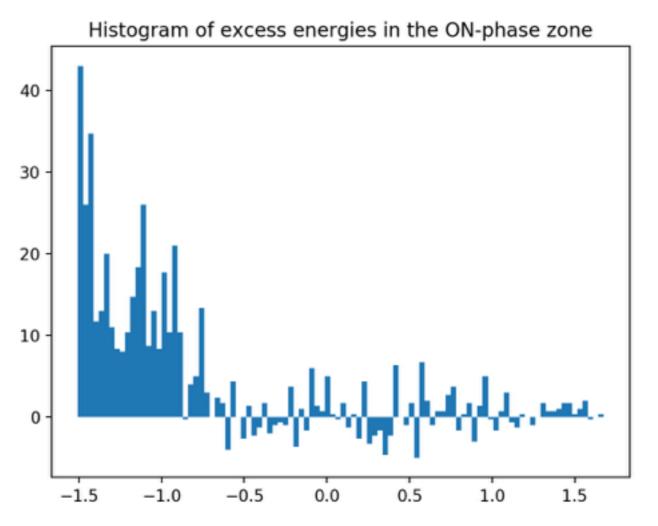
```
Cm = 12.3 (= σ)
Li&Ma (ON-phase =
[0.5, 0.6], OFF-
phase = [0.7, 1]:
σ = 11.6, excess =
386
H-value (not
significance!): 229,
harmonic 20
```



All energies, all observations with an offset < 2 deg, angular cut of 0.2 deg

## Vela energies in the DC1





# Thank you!