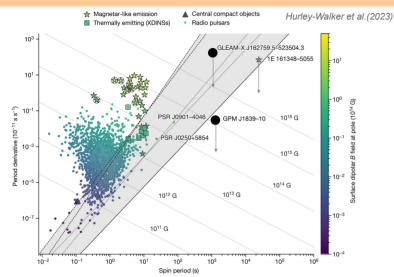


Enhanced particle acceleration in a pulsar wind interacting with a companion

Université Grenoble Alpes

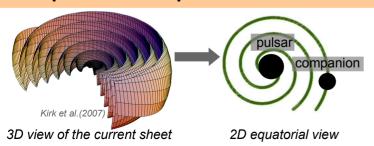
Valentina Richard Romei, Benoît Cerutti

Context

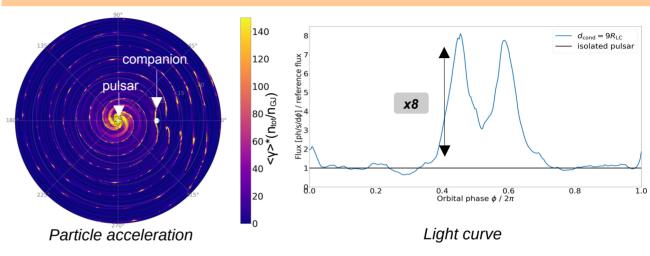


Recent discoveries of long-period radio transients

2D equatorial setup



Results - PIC simulations



Parametric study: different separations and radii of the companion

Conclusions and prospects

- Promising results: enhanced particle acceleration
 - significant increase of the non-thermal radiation
- Next step: BH-NS interaction in GRPIC