

Transient catalog with 8 years of Fermi- LAT data

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Rationale

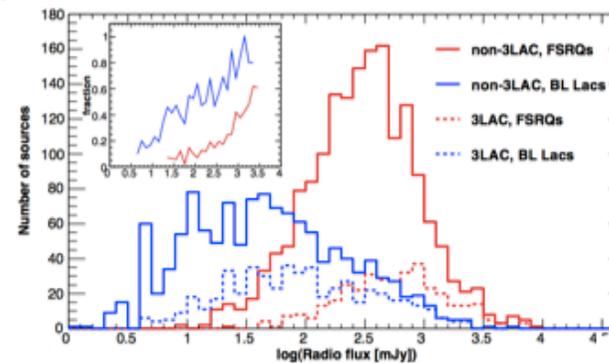


Purpose of the work and contributors

- To detect variable sources otherwise suppressed by the background when integrated on very long time periods
- To find potential contamination in the analysis of a LAT source when more than one candidate counterpart is in its proximity
- To improve the seed search
-?

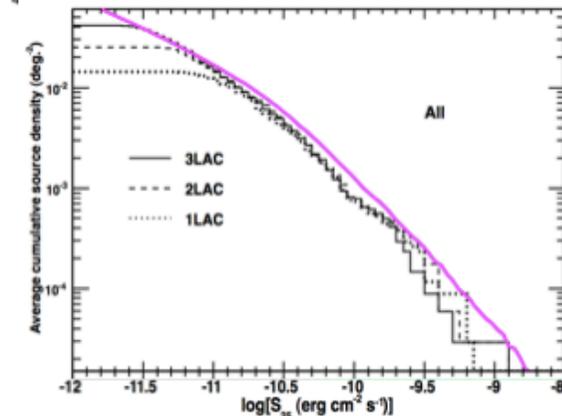


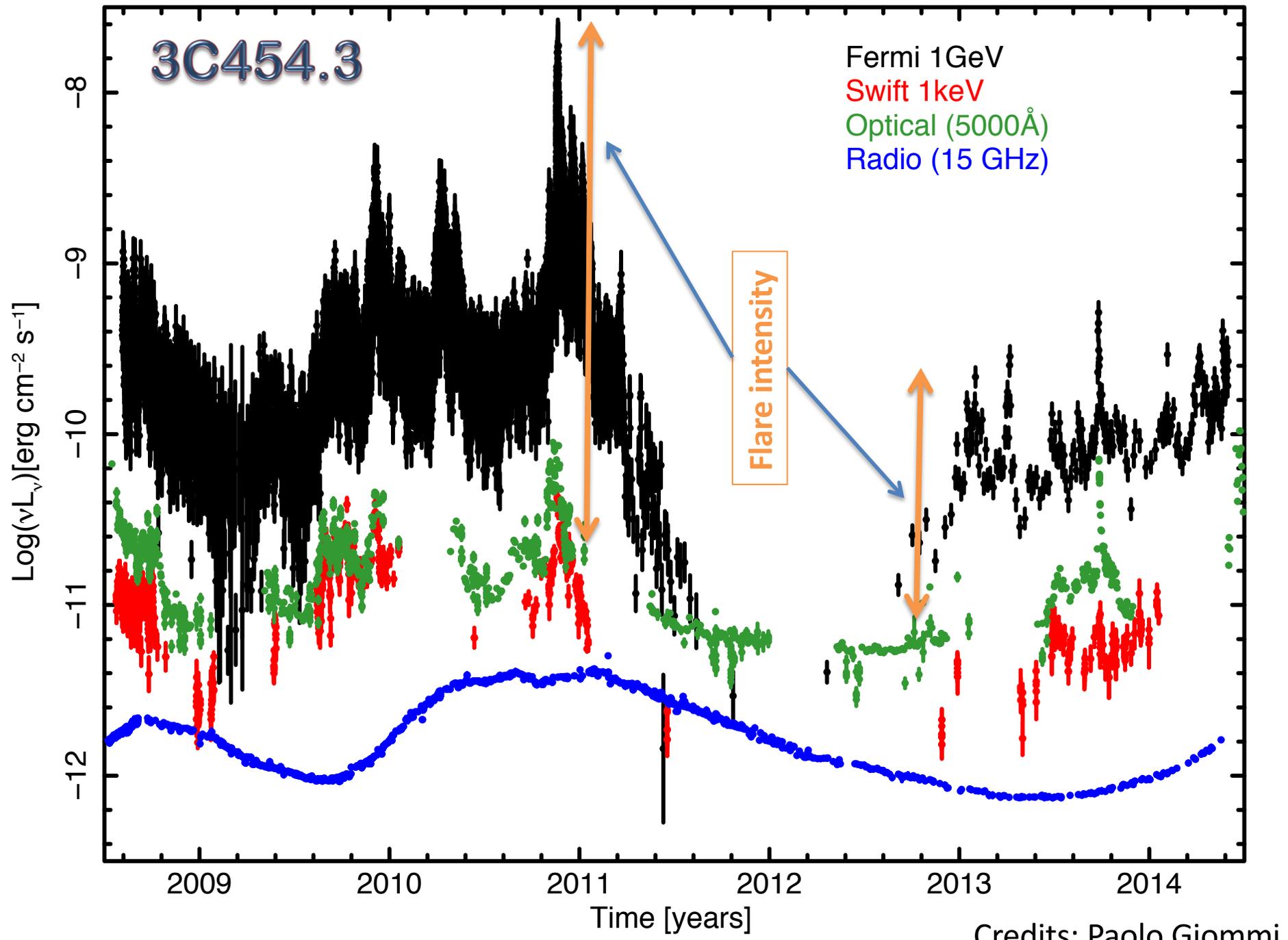
WHY should we do this catalog?

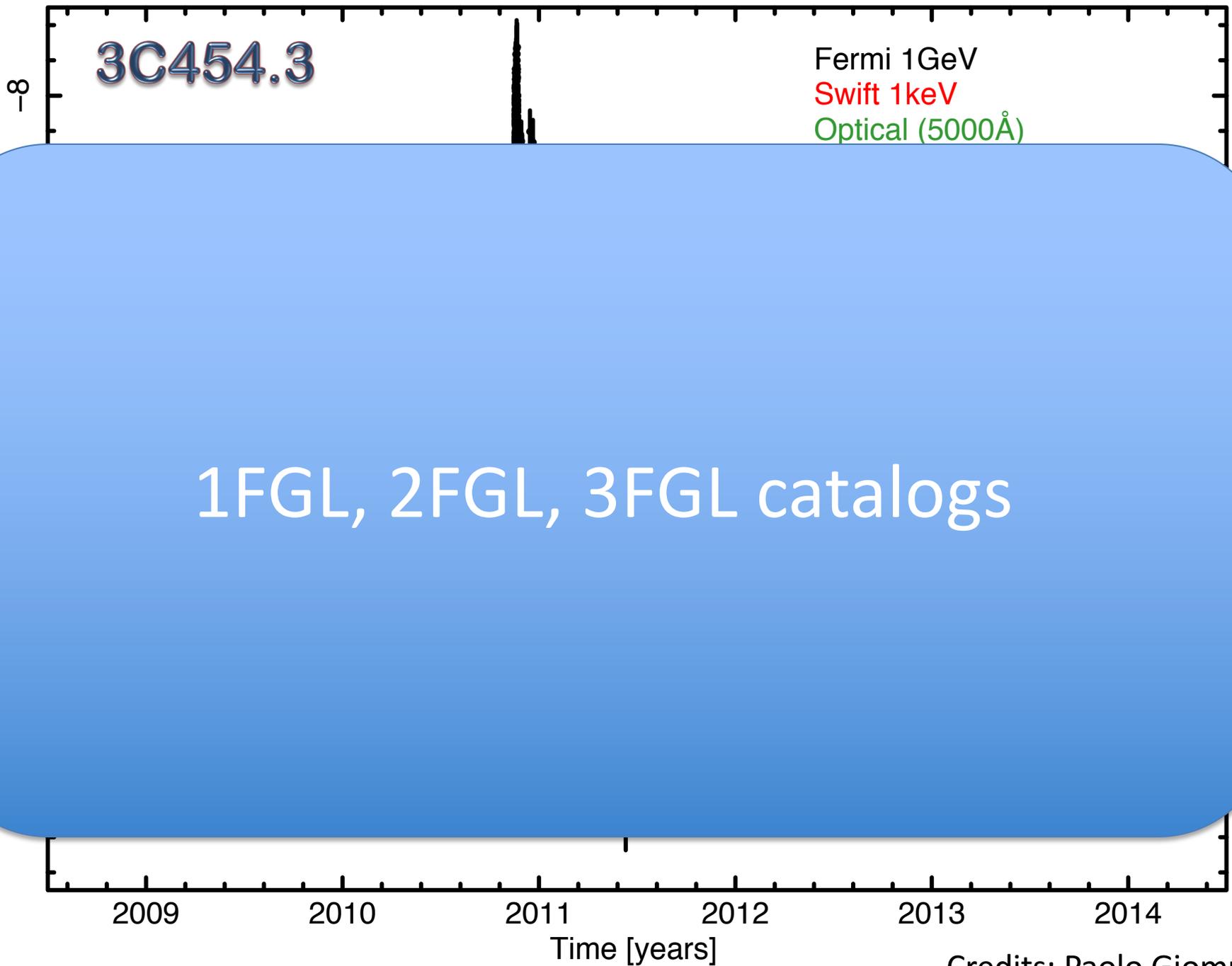


From the 3LAC paper

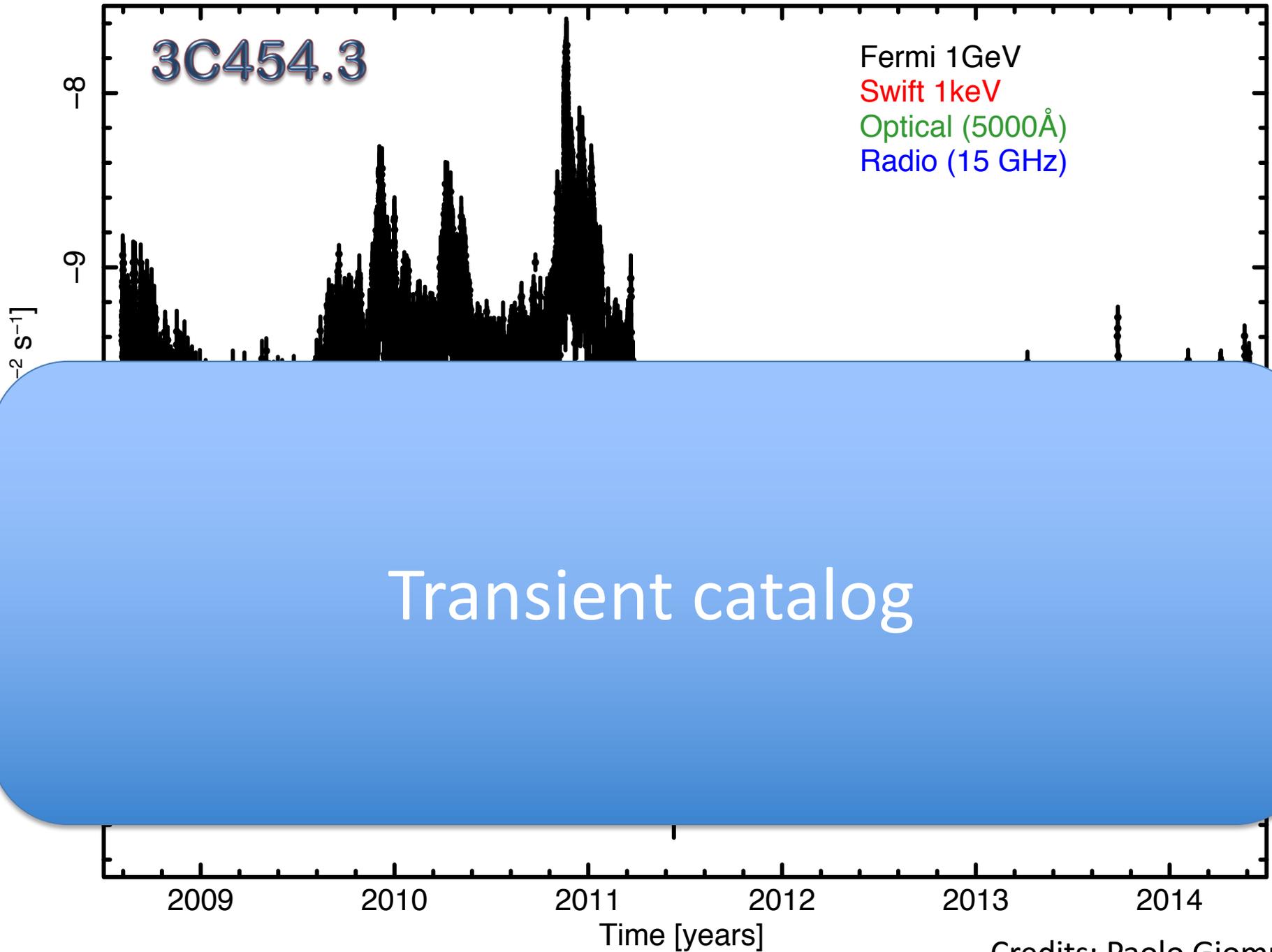
- We (FGL catalogs) detect less LSP sources than HSP ones.
- Steep sources (such as FSRQ) show the brightest gamma-ray flares.
- Such big flares allow to detect these sources, otherwise not enough bright (in gamma-ray).



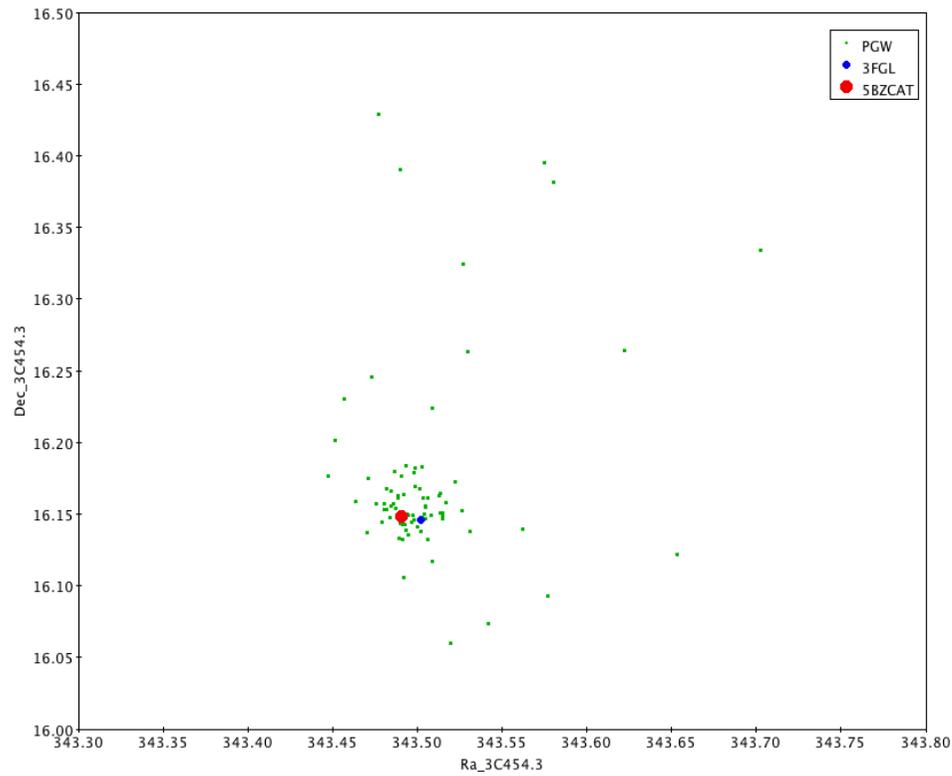




Credits: Paolo Giommi

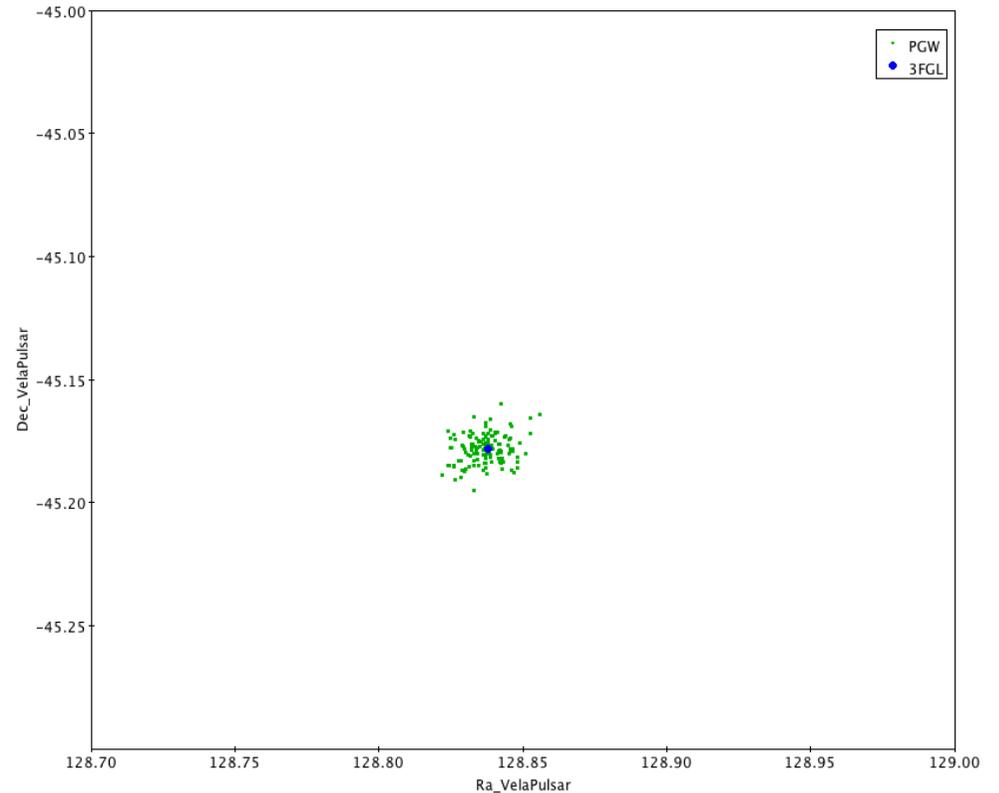


How much a known bright long standing gamma ray source displaces across the sky?

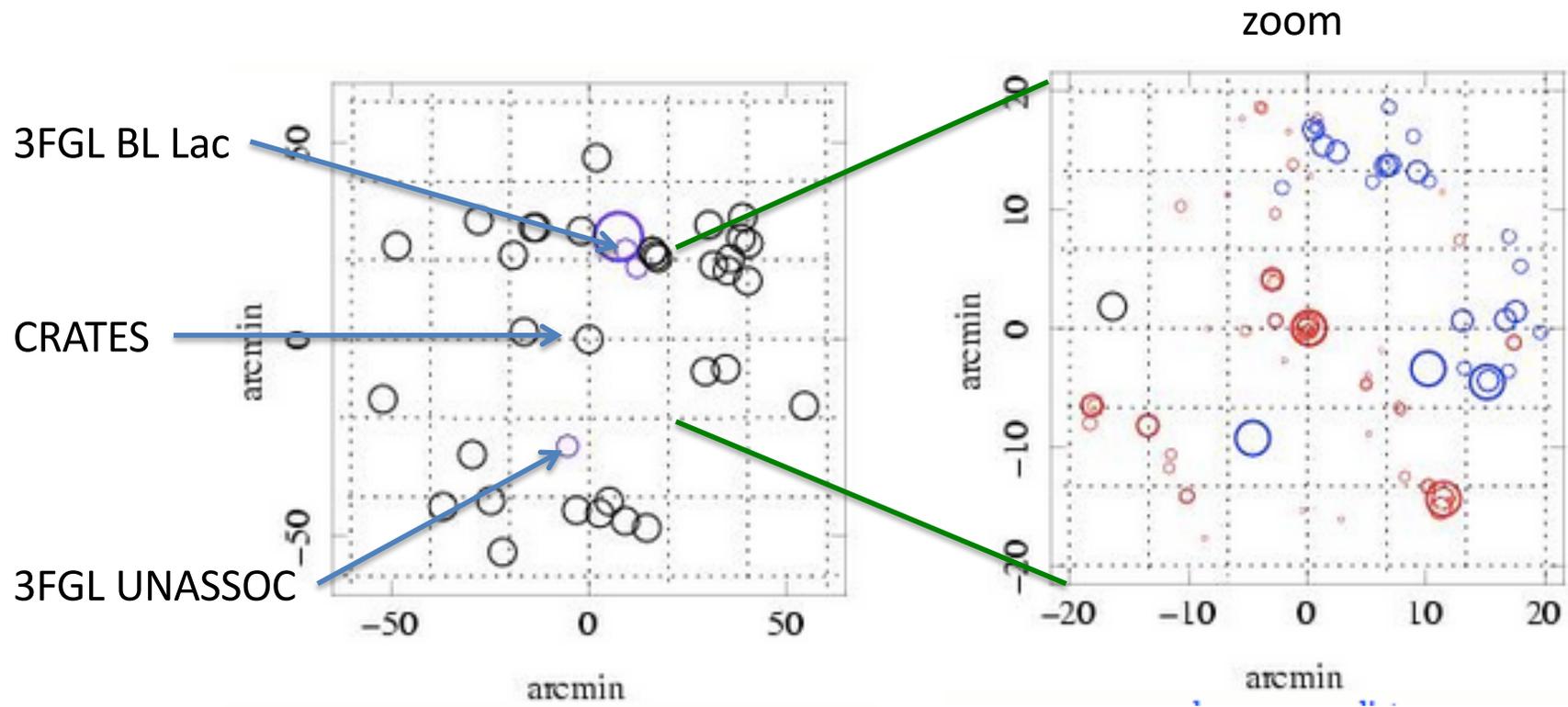


Displacement of 3C 454.3 wrt BZCAT and FGL position

Displacement of Vela Pulsar wrt FGL position



CRATES J123229+135928, PGW_TS=44



This CRATES is between two 3FGL sources, one of which is unassociated.

High latitude sources in the transient catalog

