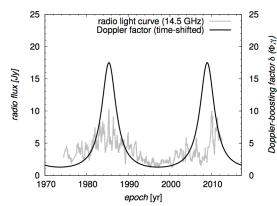
OJ 287 - deciphered

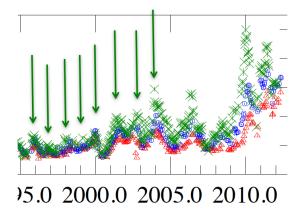
Based on 120 VLBI epochs @15 GHz we find evidence for

jet precession + jet nutation

Credit: Hotaka Shiokawa

UMRAO single-dish @14.5 GHz





Our VLBI-results explain:

- long-term radio variability:
 jet precession
- short-term radio variability:
 jet nutation
- the jet works like a clock
- optical periodicity all
 Synchrotron emission
- viewing angle changes and Doppler beaming –

variability is due to jet motion!