

I.

OD POSMATRANOG IZVORA DO NJEGOVE SLIKE UPOTREBOM RADIO-INTERFEROMETRA

Milan Prokić

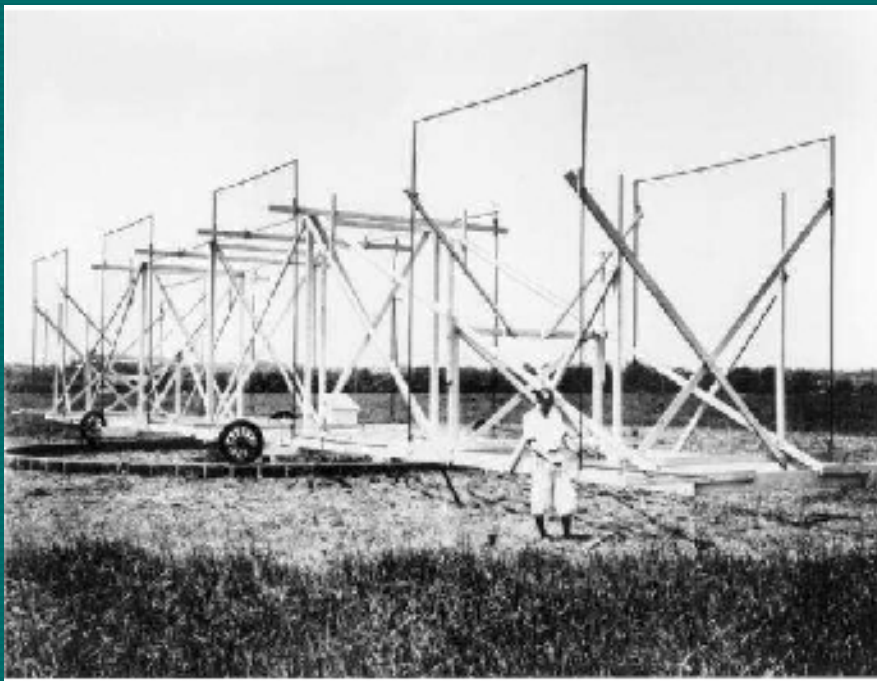
Matematički fakultet, Beograd

&

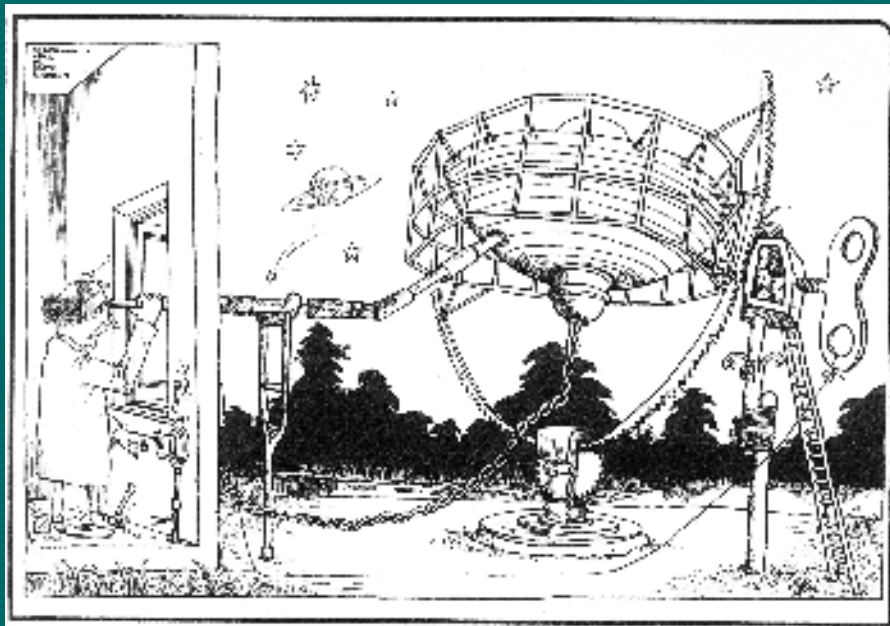
Branislav Vukotić

Astronomska Opservatorija, Beograd

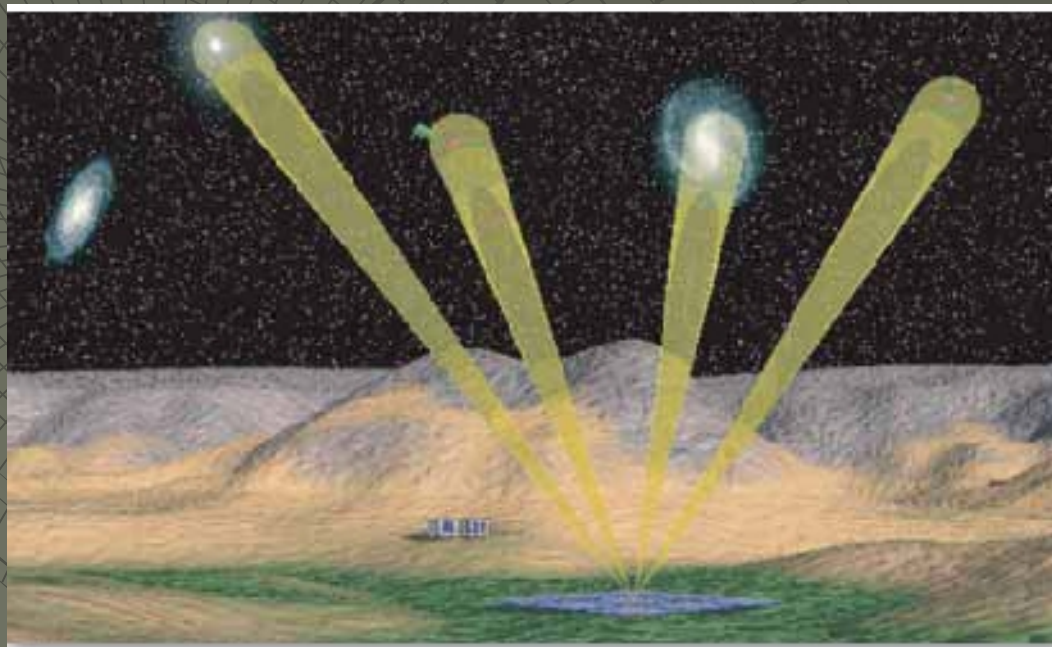
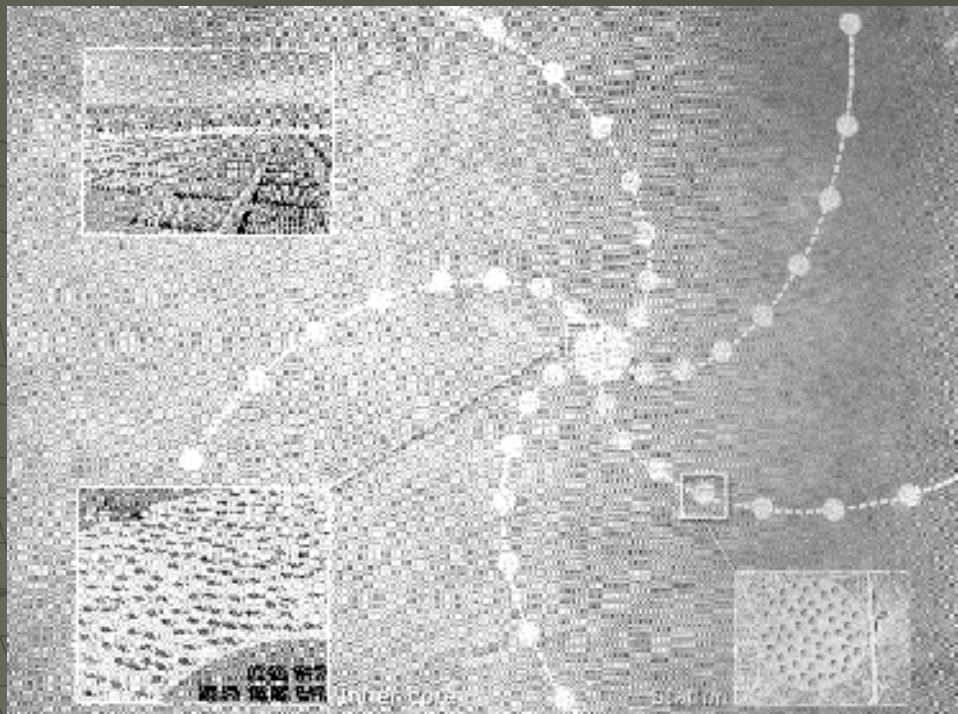
Beograd, oktobar, 2007.

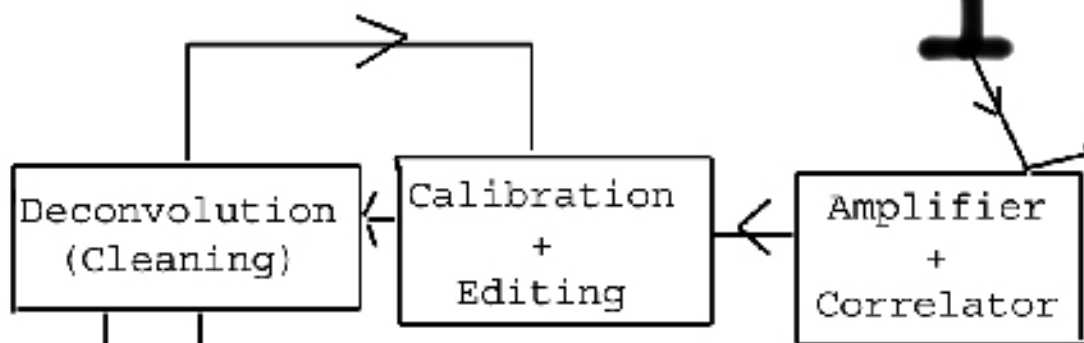


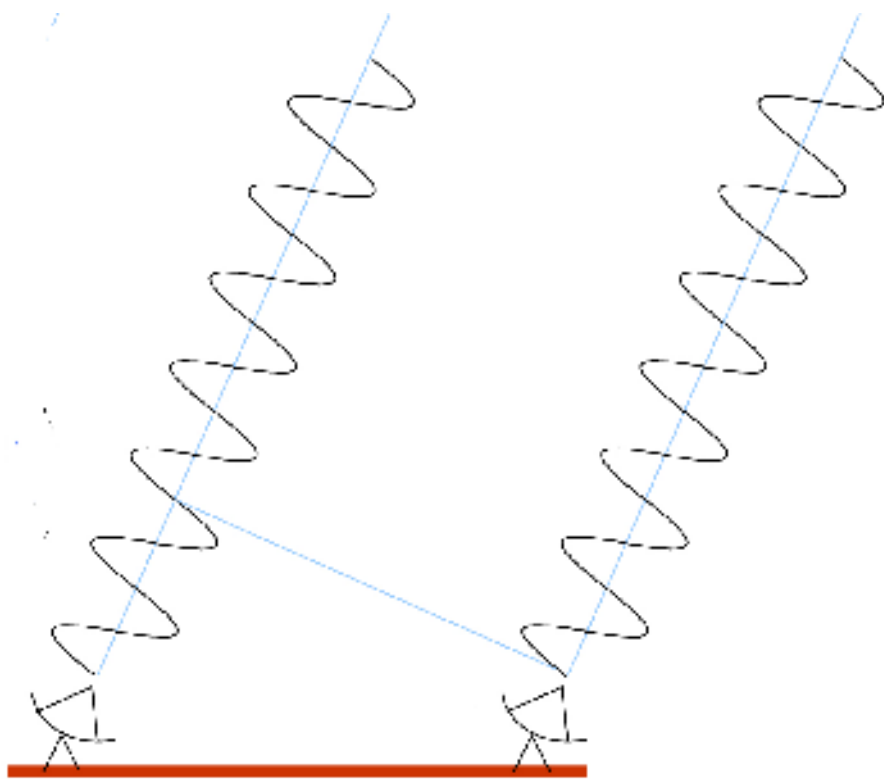
- 1931: Karl Jansky (prvi radio-inženjer-astronom) otkrio radio-zračenje Mlečnog Puta.



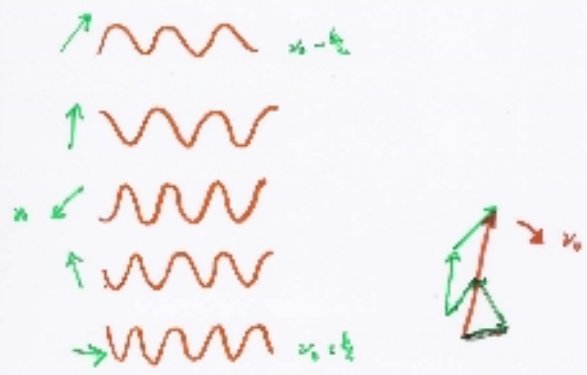
- 1946: Smatra se da je Joseph Pawsey (Univerzitet u Sidneju) obavio prva radio-interferometrijska merenja; kasnije iste godine Ryle (englez) i Vonberg su prvi objavili radio-



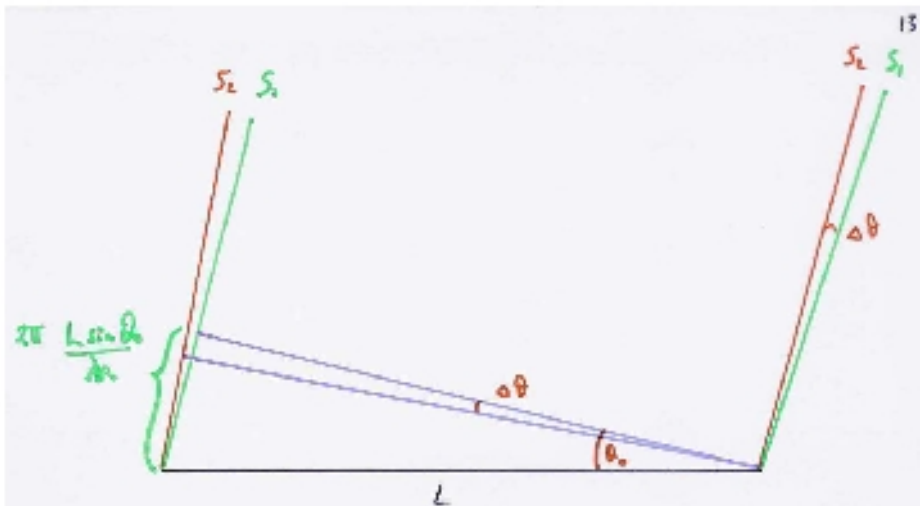




COHERENCE FOR $\Delta \omega \approx b$



AFTER TIME $\frac{1}{b}$ THE RELATIVE ROTATION OF ω_0 PRODUCES NEW RESULTANT WITH ARBITRARY PHASE OR SET



PATH COMPENSATION FOR S_1

$$S_2 = S_1$$

UNCOMPENSATED PATH FOR S_2

$$\Delta\phi = \frac{d}{d\theta} \left[2\pi \frac{L \sin\theta}{\lambda} \right] \Delta\theta$$

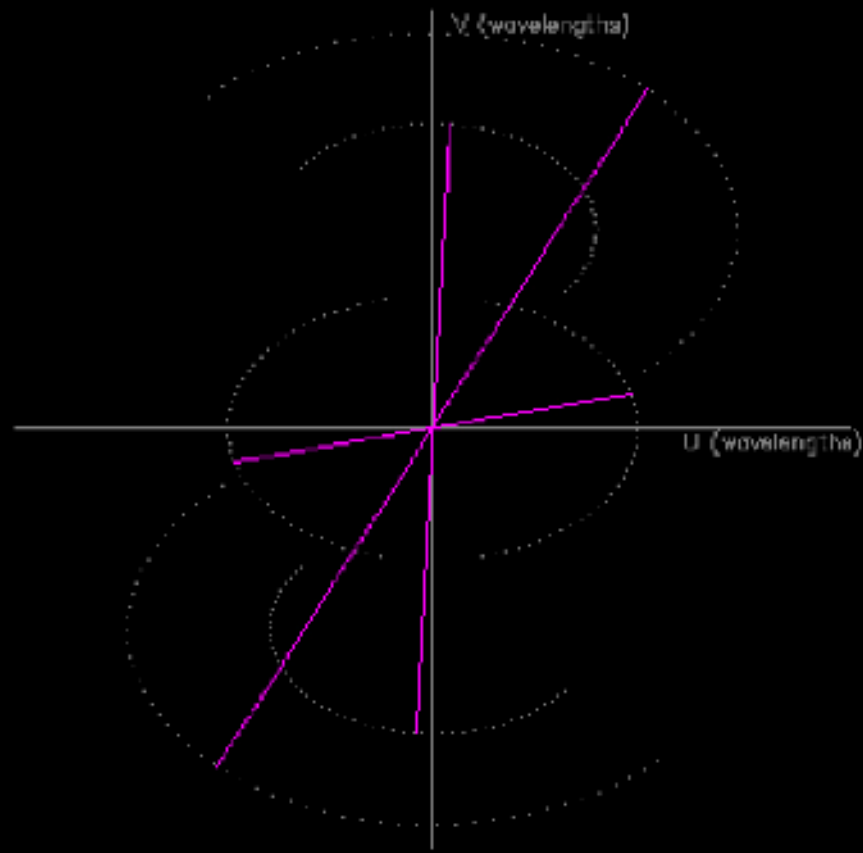
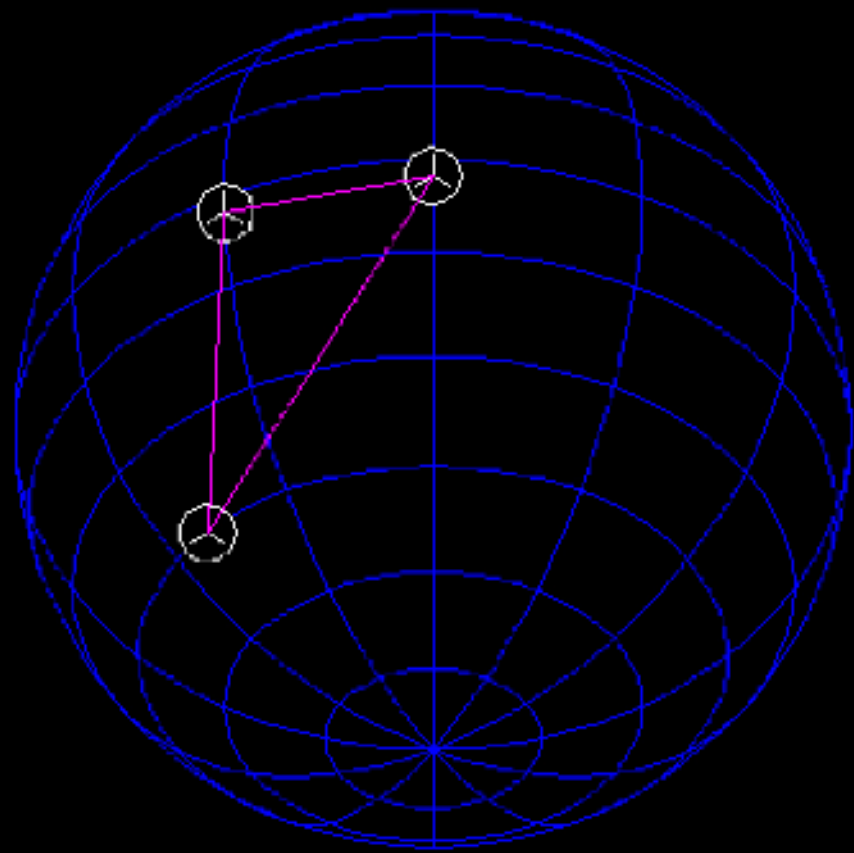
$$\Delta\phi = \frac{2\pi L \cos\theta_0}{\lambda} \cdot \Delta\theta$$

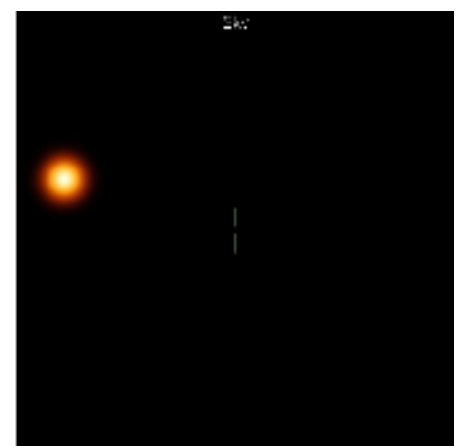
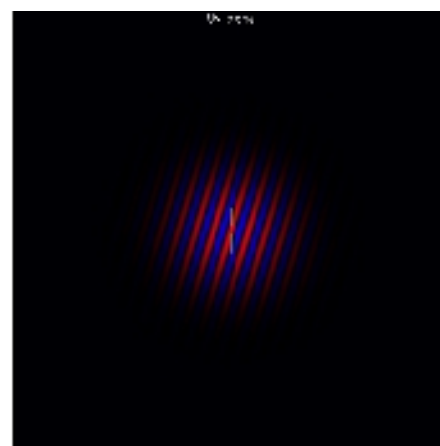
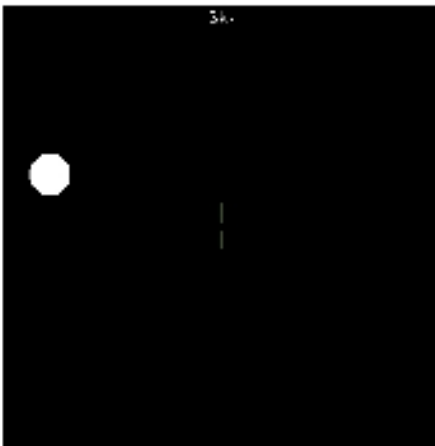
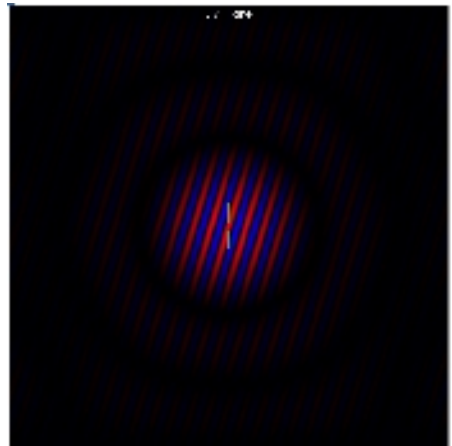
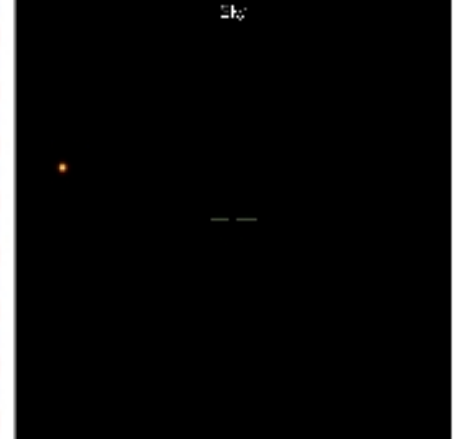
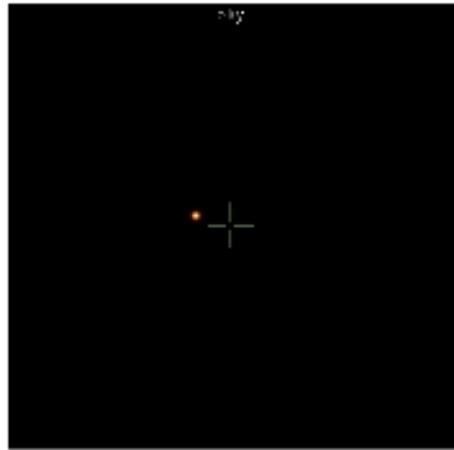
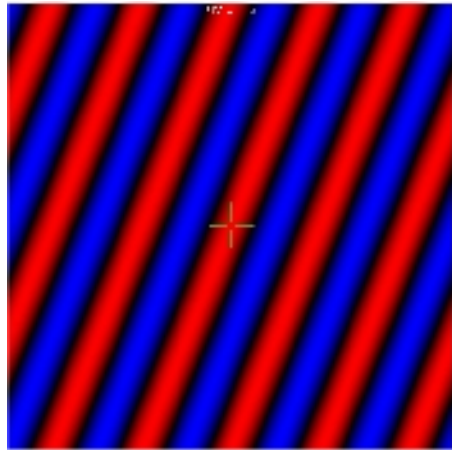
$$\Delta\phi = 2\pi q \cdot \Delta\theta$$

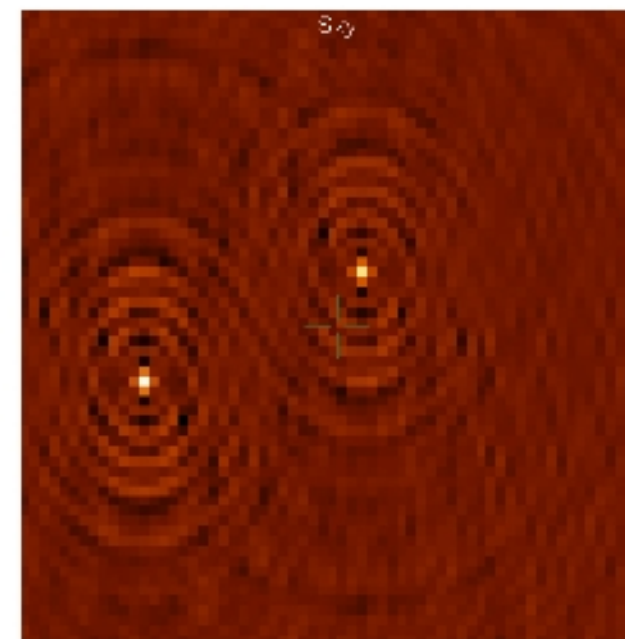
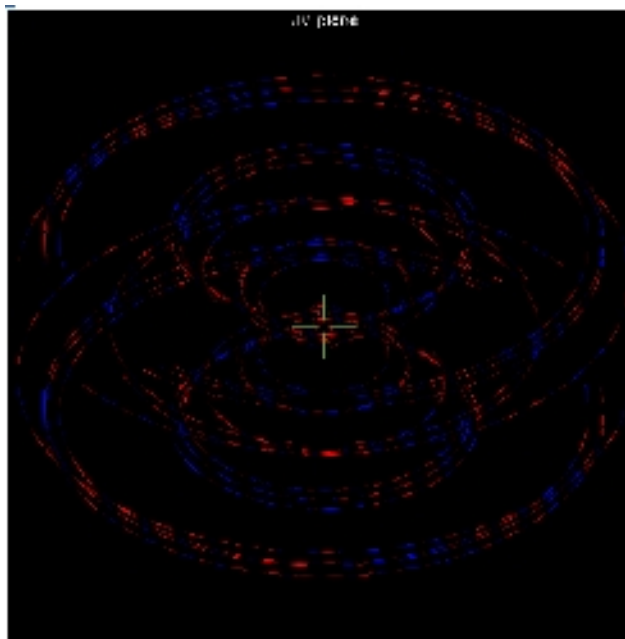
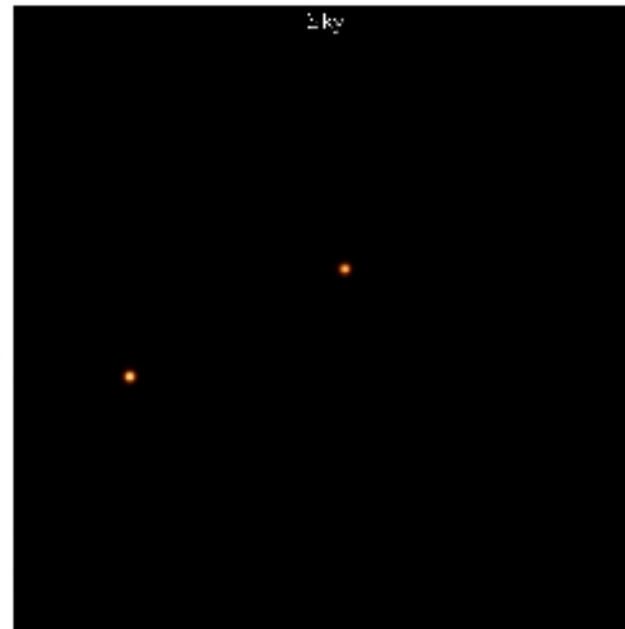
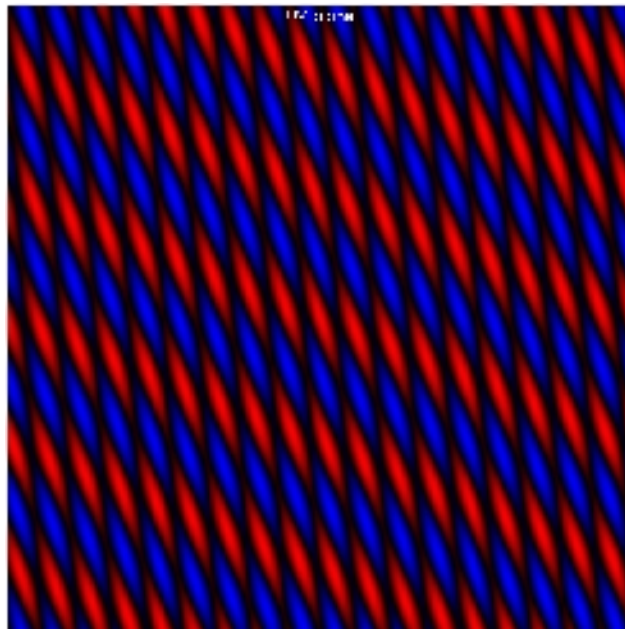
$$q = \frac{L \cos\theta_0}{\lambda}$$

(units: wavelengths)

$$S = S_2 e^{i[2\pi q \Delta\theta]}$$

























PITANJA (feedback)

- ...
- ...
- ...



HVALA !