

Status of PEGASE

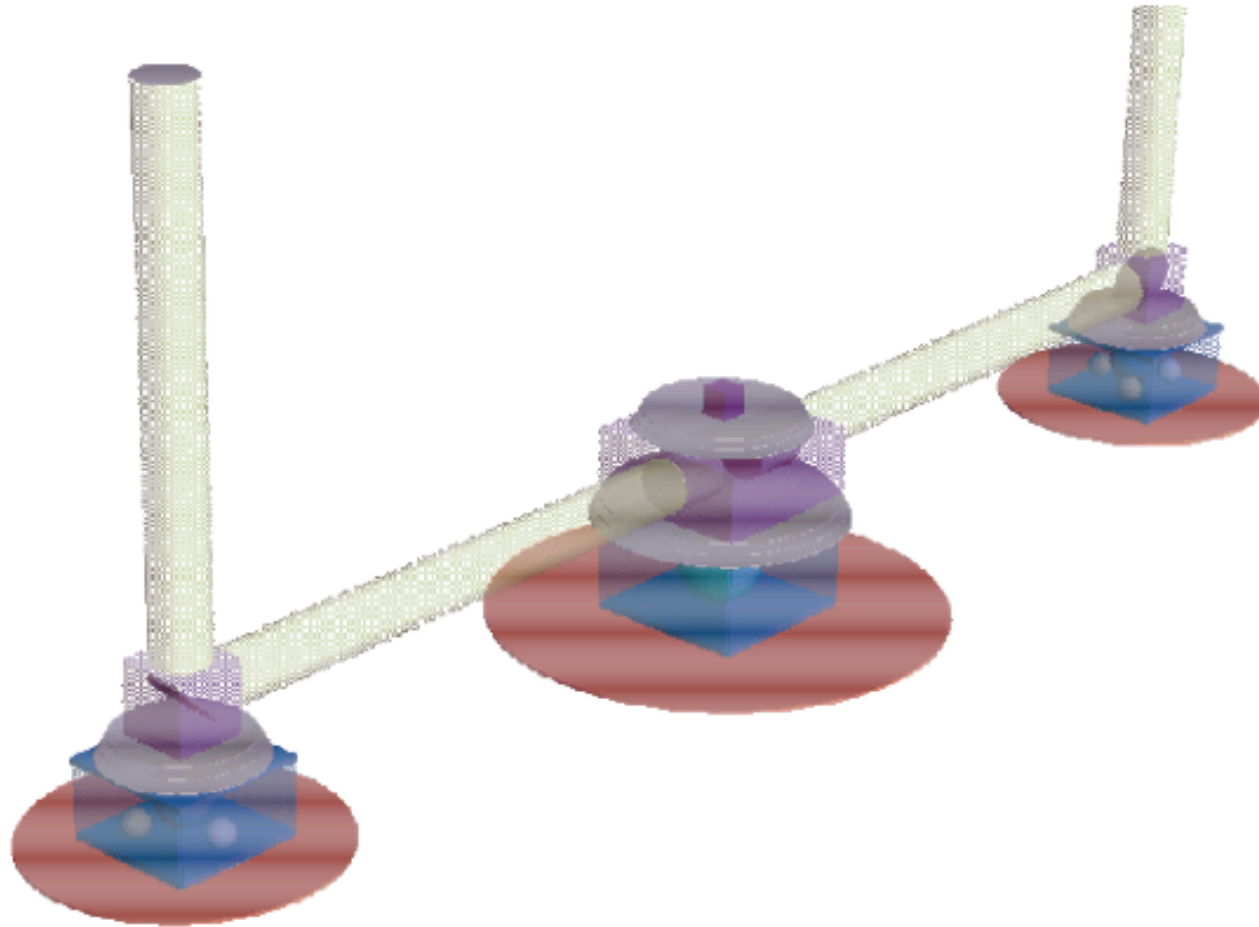
Remember: luminosities of planets

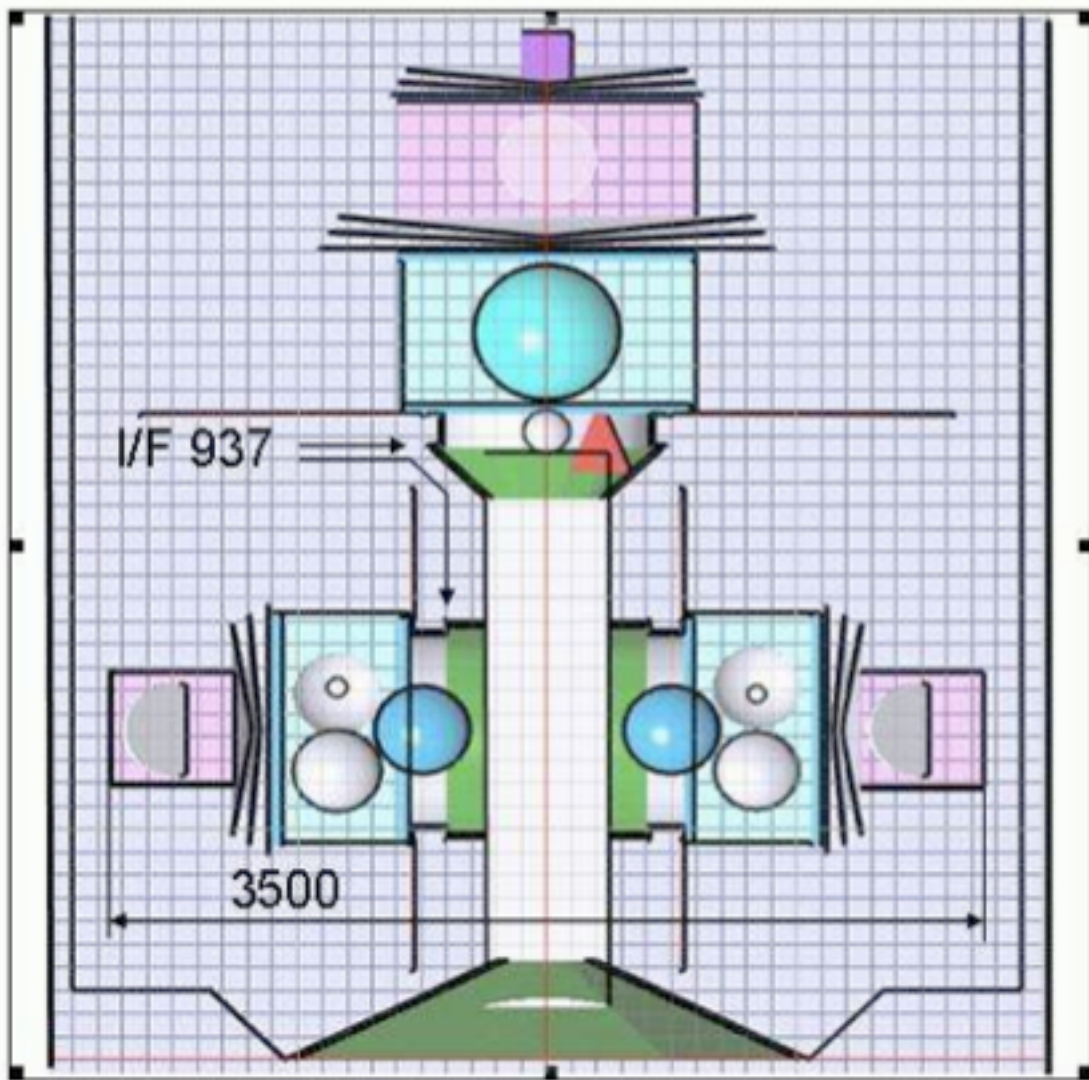
$$L \propto a^{-2} \cdot R_{\text{pl}}^2$$

In relative units:

- earths in HZ 1
- big earths, Ocean-Planets 4
($R_{\text{pl}} = 2 R_{\text{E}}$)
- neptunes in HZ 16
- jupiters in HZ 120
- **exo-Zodi (solar one) 300**
- hot neptunes ($a = 0.05$ AU) $6 \cdot 10^3$
- hot jupiters $5 \cdot 10^4$

Phase 0 study achieved





Paramètre	Pégasides nulling	Naines brunes nulling	Gap disques mesure visi. (*)	Pégasides mesure visi. (**)
τ_i (h)	10	10	3	30
b (m)	50 à 205	5 à 77	50-250	100-410
N_{Bases}	1 taille 2 angles	1 taille 2 angles	5 tailles 2 angles	2 tailles 2 angles
σ_δ (nm rms)	2.5	2.5	15	2.5
$\langle x \rangle$ (rad)	0.001	0.001	0.02	0.005
σ_ε (rms)	0.003	0.003	0.03	0.005
$\langle \varepsilon \rangle$	0.01	0.01	0.1	0.01
σ_{T_o} (K rms)	1	1	1	1
$\langle T_o \rangle$ (K)	100	100	105	100
σ_{T_d} (K rms)	0.1	0.1	0.1	0.1
$\langle T_d \rangle$ (K)	55	55	60	60
RON	10	10	50	50

Planned: instrument model (1.5 ME)

