Table 1. Comparison of Star-Grazing Comets with HAeBes

Characteristic	Sun-Grazers	Falling Evaporating Bodies	
		HAeBe Stars	MS/Zodiacal Disks
max. radial vel.	≈600 km/s	0– +500 km/s	0–200 km/s(A-shell Stars) 0–400 km/s (β Pic)
det. method	coronagraphic imaging	LOS absorption	LOS absorption
post/pre-periastron detection ratio	0 out of >60 comets	infall detected outflow blends with stellar/disk wind	infall predominates outflow events sporadic
species obs.	neutral atomic gas	neutrals to triply ionized species	neutrals to triply ionized species
masses	rubble (m-sized)	gas mass ≈ cometary in single obs.	
variability	orbital time	hours (high vel.) events last 20-60 hrs	hours (high vel.) events last 20-60 hrs
frequency	2/month	1/24 hours (t<3 Myr) 1/5 days (AB Aur) 1-1.5/5 days (HD 163296) sporadic (HD 100546)	high but uncertain (A-Shell stars) episodic (β Pic)