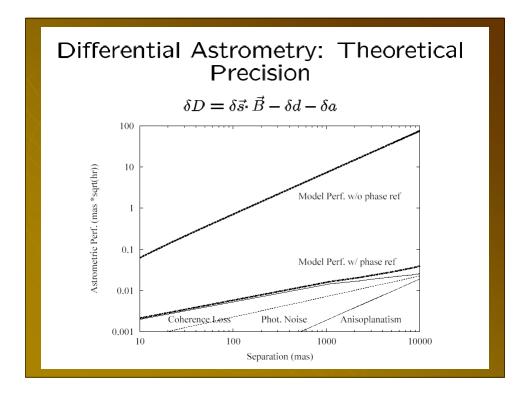


Phases Sample (I)								
HD	Spectral		$\rightarrow$		Maximum	Maximum	Minimum Planet	Pric
Number	Type	Κ	$\Delta V$	P <sub>binary</sub>	P <sub>planet</sub> (years)	a <sub>planet</sub> (AU)	Mass (M <sub>J</sub> )	Dat
206901	F5IV	2.97	0.3	1 binary 11.6	1.3	1.4	0.73	28
176051	G0V	3.8	2.5	61.2	3.0	2.2	0.07	3
196524	F5IV	2.65	0.83	26.7	2.9	2.0	0.28	3
202275	F5V+	3.27	0.3	5.7	0.4	0.6	0.53	10
114378	F5V	3.2	0	25.8	1.5	1.1	0.12	2
29140	A5m	3.82	2.9	18.1	3.0	2.0	0.38	3
19356	B8V	2.24	2.5	1.9	0.4	0.4	1.14	0
221673	K4III	1.76	0.1	246.2	3.0	3.2	2.76	26
171779	K0III	2.78	0.1	191.5	3.0	3.1	3.84	17
77327	A1Vn	3.53	0.39	35.6	1.8	2.4	3.85	4
58728	F5IV-V	4.1	2	2.1	0.16	0.22	2.08	1
5286	K1IV	3.15	0.35	167.7	3.0	2.2	0.28	7
60318	K0III	3	0.4	213.1	3.0	2.4	0.82	6
13872	F6V	4.4	0.35	23.7	0.6	0.7	1.13	3
137909	F0p	3.3	1.5	10.3	0.7	0.7	0.79	1
17904	F4Vvar	4.3	0.9	31.5	0.6	0.7	2.30	10
215182	G2II-III	0.93	?	2.2	0.3	0.6	3.96	0
6811	B7III	1.32	1	391.0	3.0	3.3	3.31	6
171745	G8III	3.4	0.15	210.9	1.7	1.9	3.03	0
44926	K1III	4.1	0.15	?	?	?	?	2
11636	A5V	2.37	?	0.3	0.0	0.0	N/A	0

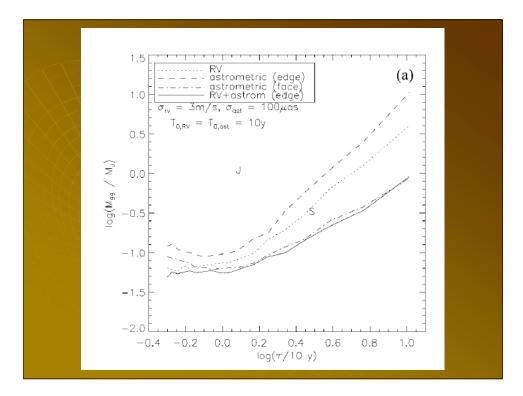
Phases Sample (II)								
					•	•		<b>D</b> .
HD	Spectral			Б	Maximum	Maximum	Minimum Planet	Prior
Number	Type	K	$\Delta V$	P <sub>binary</sub>	P <sub>planet</sub> (years)	a <sub>planet</sub> (AU)	Mass (M <sub>J</sub> )	Data
137107	G2V G2V	3.5	0.3	41.6	3.0	2.3	0.15	4?
68255	G0V	3.3	0.25	59.6	3.0	2.4	0.24	0
90537	G8III-IV	2.16	1.8	38.6	1.5	1.0	0.53	0
213973	A9III	4.2	0.25	224.0	3.0	2.6	0.79	0
140159	A1V GaV	4.43	0.15	21.9	3.0	2.7	0.72	0
214850	G3V+	4.2	0.65	20.8	0.4	0.5	0.83	0
16234	F7V	4.3	0.2	1.9	0.0	0.0	N/A	0
81858	F9V	4	0.65	118.2	3.0	2.1	0.23	0
76943	F5V	2.92	2	21.8	3.0	1.9	0.11	0
207652	F2III-IV	3.5	1	26.1	3.0	2.2	0.26	0
165908	F7V	3.7	2.06	56.4	1.3	0.6	0.11	0
49618	G4III	3.2	0.9	290.5	3.0	3.3	2.04	0
85235	A3IV	4.4	0.2	105.4	3.0	3.5	2.61	0
18925	G8III+	0.98	1.3	14.6	0.2	0.4	6.47	0
196867	B9V	3.9	1.8	17.0	1.6	1.2	1.30	0
40932	Am	3.88	1.6	18.5	0.4	0.5	2.20	0
155763	B6III	3.49	1.04	6.6	1.1	1.8	6.89	0
157482	F9Vn	4.1	?	5.5	0.13	0.33	6.29	0
41116	G7III	2	0.65	13.4	1.4	1.4	0.87	0
45542	B6III	2.3	1	13.0	0.0	0.0	N/A	0
50522	G5III-IV	2.33	1.05	262.0	3.0	2.6	0.49	0
140436	A1Vs	3.73	1.55	92.9	3.0	2.8	0.43	0
137391	F0V	3.6	?	3.8	0.4	0.7	1.54	0
26690	F3V	4.4	1.1	7.2	0.9	0.7	0.62	5

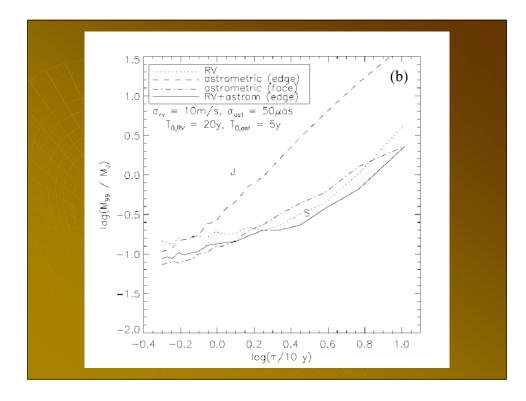


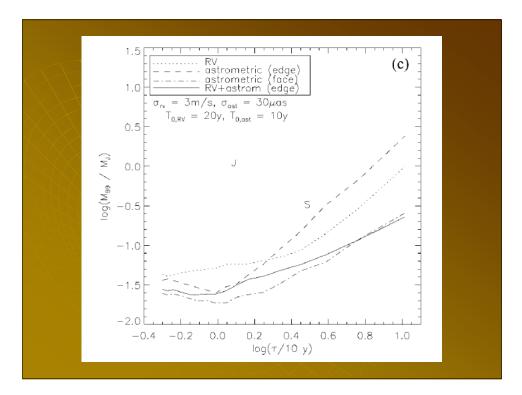


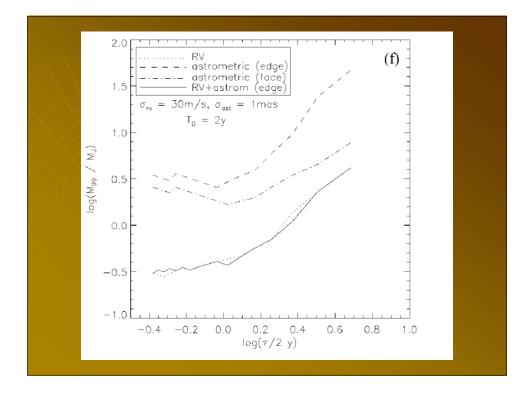
## Some Obvious Points that are worth remembering

- RV + Astrometry is better than either
- RV + Astrometry is sensitive to all inclination angles
- Full orbit determinations









	A Michelson Interferometers	er
Aperture: Field of View:	10 m 0.4-1 micron (CCD) 0.3 m 0.3 arcsecond 10 milliarcsecond Earth Trailing (SIRTF) 2009 5 yr (10 yr?)	
Principal Ol	How does SIM work? oservable is Delay: ay = B . s + C	

C = instrumental consta

Stabilize with 2 grid stars observed with "guide" interferometers Derive B from observations of the grid stars (known s) Keep track of C from internal metrology Measure Delay with "science" interferometer

