Decision Statement: Recommend one Primary and one Backup coronagraph *architecture* (option) to focus design and technology development

					Option 1		Option 2		Option 3		Option 4		Option 5		Option 6		Notes
		Name			SPC		PIAACMC		HLC		VVC		VNC - DA		VNC - PO		
		Description															
Description			Active Correction with DMs		yes	low stroke	yes	low stroke	yes	low stroke	yes, hi stroke AC		yes, 1 DM		yes, 1 DM		
Description			Passive Apodization		no		yes		no								
Description			Pupil plane mask		yes		no		no		yes						
Description			Focal plane mask		yes		yes		yes		yes						
Description			Lyot stop		no		basic		basic		basic						
Description			LOWFS/C		Yes		Yes		Yes		Yes						
Description			Polarizer		No		No		No		Yes						
Evaluation	**Musts**		**Programmatic**														
Evaluation		M1 - T	Science: Meet Threshold requirements? (1.6, x10)			Yes		Yes		Yes		No		No		U	
Evaluation		M2	Interfaces: Meets the DCIL**?			Yes		Yes		Yes		Yes		Yes		U	
Evaluation		M3	TRL Gates: For baseline science is there a credible plan to meet TRL5 at start of FY17 and TRL6 at start of FY19 within available resources?			Yes		Yes		Yes		U		No		U	
Evaluation		M4	Ready for 11/21 TAC briefing			Yes		Yes		Yes		Yes		Yes		No	
Evaluation		M5	Architecture applicable to future earth-characterization missions			Yes		Yes		Yes		Yes		Yes		U	
Evaluation	**Wants**			**Weights**	SPC		PIAACMC		HLC		VVC		VNC-DA		VNC - PO		
Evaluation		W1	**Science**	**40**													
Evaluation		a	Relative Science yield (1.6, x10) beyond M1-T			Sm/Sig		Best		Sm/Sig		VL		VL			Range of opinions between "significant and small". For SPC and VNC2 the search area is ~3 times less than 360deg, and that was taken into acct in comparisons
Evaluation		W2	**Technical**	**30**													
Evaluation		a	Relative demands on observatory (DCIL), except for jitter and thermal stability			Best		Best		Best		Best		Small			
Evaluation		b	Relative sensitivities of post-processing to low order aberrations			Best		Sig		Sig		VL		U			For n-lambda over D or different amplitudes the designs will have the same relative ranking
Evaluation		c	Demonstrated Performance in 10% Light			Small		Sig		Best		Sig		VL			Demonstrated Performance (10%) and Prediction
Evaluation		d	Relative complexity of design			Best		Small		Best		Small		Sig			
Evaluation		e	Relative difficulty in alignment, calibration, ops			Best		Small		Best		Small		Sig/Sm			
Evaluation		W3	**Programmatic**	**30**													
Evaluation		a	Relative Cost of plans to meet TRL gates			Best		Small		Best		Sig		Sig			
Evaluation			Wt. sum =>	100%													

✓ yes, or expected likely
? unknown
✗ no, or expected showstopper

Identify "Best" and others are:
-Wash
-Small Difference
-Significant Difference
-Very Large Difference

Risks	(all judged to be Hgh consequence)	SPC		PIAACMC		HLC		VVC		VNC-DA		VNC - PO		Notes
		C	L	C	L	C	L	C	L	C	L	C	L	
Risk 1	Technical risk in meeting TRL5 gate		L		M		M/L		M/H		H			PIAA trend over the last three working days lower, but recommendation to keep M
Risk 2	Schedule or Cost risk in meeting TRL5 Gate		L		M		M/L		M/H		H			
Risk 3	Schedule or Cost risk in meeting TRL6 Gate		L		L		L		M		M			
Risk 4	Risk of not meeting at least threshold science		L		L		L		H		H			
Risk 5	Risk of mnfr tolerances not meeting BL science		L		L		L		M/L		H			One dissent, previous TDEM performance track record and Bala's assessment should be taken into account.
Risk 6	Risk that wrong architecture is chosen due to assumption that all jitter >2Hz is only tip/tilt		L		M/H		M		M/H		M			
Risk 7	Risk that wrong architecture is chosen due to any assumption made for practicality/simplicity	open ended question, spawned evaluations on Risk 5, Risk 6, Risk 8, and Oppty 1												
Risk 8	Risk that ACWG simulations (by JK and BM) overestimate the science yield due to model fidelity	discussed; not enough understanding at this time to make an evaluation.												Model validation is a risk that needs to be evaluated in the future

Opportunities	(judged to be High benefit)	SPC		PIAACMC		HLC		VVC		VNC-DA		VNC - PO		
		B	L	B	L	B	L	B	L	B	L	B	L	
Oppty 1	Possibility of Science gain for 0.2marcsec jitter, x30		L		M/H		M		L		H			

Final Decision, Accounting for Risks and Opportunities:

C = Consequence, L = Likelihood, B=Benefit
**DCIL = Dave Content Interface List

indicates those few areas where consensus was not achieved
consensus achieved on balance of matrix

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