

		MISC	Value	TU	FA	VA	VI	MI	CR	IF	DG	EL	IO	LA	DA	GE
4th GAS	spring constant of 4th GAS filter		473kg/s <sup>2</sup>				VI									
4th GAS	T dependence of spring constant		TBD				VI		CR	IF						
4th GAS	loss of GAS filter blades		1e-2				VI									
4th GAS	mass of GAS filter joint for wire		<100g				VI									
4th GAS	wire length btw 4th GAS filter and PF		2.1m				VI									
4th GAS	wire diameter		3.11mm				VI									
4th GAS	number of wires		1				VI									
4th GAS	wire material		Maraging				VI									
4th GAS	wire young's modulus		186GPa				VI									
4th GAS	wire tensile strength		2GPa				VI									
4th GAS	loss of wire		TBD				VI									
4th GAS	wire length btw 4th GAS filter and CB		2.1m				VI									
4th GAS	wire diameter		3.74mm				VI									
4th GAS	number of wires		1				VI									
4th GAS	wire material		Maraging				VI									
4th GAS	wire young's modulus		186GPa				VI									
4th GAS	wire tensile strength		2GPa				VI									
4th GAS	total mass suspended by 4th GAS filter		120kg				VI									
4th GAS	local sensor for GAS filter		LVDT				VI				DG	EL				
4th GAS	local control for GAS filter		Coil				VI				DG	EL				
BS	BS radius		19cm					MI		IF						
BS	BS thickness		12cm					MI		IF						
BS	BS reflectivity		50%					MI		IF						
BS	BS HR surface optical loss		50ppm					MI		IF						
BS	BS AR surface reflectivity		50ppm					MI		IF						
BS	RoC of BS		>100km					MI		IF						
BS	BS substrate absorption		1ppm/cm (problematic!)					MI		IF						
BS	AR wedge of BS		0.383deg					MI		IF						
Cryostat	radiation shield diameter		50cm				VA									
Cryostat	radiation shield aperture (diameter)		25cm				VA			CR						
Cryostat	cryostat shield aperture (diameter)		25cm				VA			CR	IF					
Cryostat	top hole diameter (to SAS)	*	15cm				VA	VI		CR	IF					
Cryostat	cryostat cylinder dimension		f=2.4m,t=2cm,h=3.05m	TU	FA		VA	VI		CR						
Cryostat	cryostat weight		10t	TU	FA		VA	VI		CR						
Cryostat	heat from shield aperture		4W				VA			CR						
Cryostat	heat from vacuum duct support		24W				VA			CR						



Electronics	AC cable selection	100V / AWG14 triplet			IF	EL	
Electronics	AC conector selection	D-sub			IF	EL	
Electronics	RF cable selection	co-axial			IF	EL	
Electronics	RF connector selection	SMA			IF	EL	
Facility	tunnel width/height	TUN 4m	TU FA VA				GE
Facility	tunnel tilt	TUN 1/300	TU FA VA		IF		GE
Facility	chamber room size (2nd floor)	TUN 8m x 12m	TU FA VA		IF		GE
Facility	chamber room size (1st floor)	TUN 20m x 12m	TU FA VA	CR	IF		GE
Facility	flange flatness	VAC 0.1mm					
Facility	flange thickness	VAC 30mm					
Facility	vacuum level	VAC 2e-7Pa	FA VA		IF		
Facility	duct height from floor	VAC 1.2m from the floor	FA VA		IF		
Facility	duct diameter	VAC 80cm	FA VA		IF		
Facility	position of chambers	VAC (see MIF doc)	FA VA		IF		
Facility	number of pumps	VAC 30 per arm	FA VA				
Facility	pumping speed of ion pump	VAC 1000L/s	FA VA				
Facility	pumping speed of turbo pump	VAC 2000L/s	FA VA				
Facility	number of gate valves	VAC 2 per arm (both ends)	FA VA				
Facility	number of vacuum monitors (chamber)	VAC 1 for each chamber	FA VA				
Facility	number of vacuum monitors (duct)	VAC 10 per arm	FA VA				
Facility	beam position monitor (movable target)	VAC 10 per arm	FA VA		IF	IO	
Facility	room temperature	FAC 289K	FA				
Facility	laser room cleanliness	FAC CLASS 100	FA			IO LA	
Facility	room cleanliness	FAC CLASS 1000	FA	MI CR		IO	
Facility	cleanliness for chamber working	FAC CLASS 100	FA	MI CR		IO	
Facility	cleanliness of cryostat body (?)	CRY CLASS 10000	FA	MI CR			
Facility	noise level of accelerometers	PEM TBD	FA				
Facility	noise level of tilt meters	PEM TBD	FA				
HL (IM-RM)	material	6N Aluminum		VI	CR		
HL (IM-RM)	number	TBD		VI	CR		
HL (IM-RM)	length	TBD		VI	CR		
HL (IM-RM)	spring constant	TBD		VI	CR		
HL (IM-RM)	diameter	TBD		VI	CR		
HL (IM-RM)	loss	TBD		VI	CR		
HL (PF-IM)	material	6N Aluminum		VI	CR		
HL (PF-IM)	number	TBD		VI	CR		
HL (PF-IM)	length	TBD		VI	CR		

HL (PF-IM)	spring constant		TBD	VI	CR			
HL (PF-IM)	diameter		TBD	VI	CR			
HL (PF-IM)	loss		TBD	VI	CR			
IM	actuator power on IM		TBD	VI	IF	EL		
IM	mass of IM		60kg	VI	CR			
IM	material		Cu	VI	CR			
IM	dimension		310x200x110 mm	VI	CR			
IM	temperature of IM		10K	VI	CR			
IM	emmissivity of surface of IM	*	0.02	VI	CR			
IM	specific heat of IM		TBD	VI	CR			
IM	thermal conductivity of IM		TBD	VI	CR			
IM	local sensor for IM		TBD	VI	CR	EL		
IM	local control for IM		TBD	VI	CR	EL		
IM	RRR of material		TBD	VI	CR			
IM fiber	number of wires	*	4	VI	CR			
IM fiber	material		Tungsten	VI	CR			
IM fiber	Young's modulus	*	161GPa	VI	CR			
IM fiber	tensile strength	*	5GPa	VI	CR			
IM fiber	loss		1e-4	VI	CR			
IM fiber	thermal conductivity		TBD	VI	CR			
IM fiber	length		0.4m	VI	CR			
IM fiber	diameter		0.72mm	VI	CR			
IM fiber	density		19250kg/m <sup>3</sup>	VI	CR			
IM fiber	temperature		10K	VI	CR			
RM fiber	yaw-mode resonant frequency		TBD	VI	CR			
RM fiber	pitch-mode resonant frequency		TBD	VI	CR			
RM fiber	yaw-mode loss		TBD	VI	CR			
RM fiber	pitch-mode loss		TBD	VI	CR			
RM fiber	yaw-mode moment of inertia		TBD	VI	CR			
RM fiber	pitch-mode moment of inertia		TBD	VI	CR			
IOO	AF RIN (requirement)		TBD		IF		IO	LA
IOO	RF RIN (requirement)		1e-9W/W/rtHz		IF		IO	LA
IOO	FSS gain at 100Hz		300dB		IF		IO	LA
IOO	FSS gain at 1kHz		180dB		IF		IO	
IOO	Ref Cav length		15cm (single FP)				IO	
IOO	Ref Cav finesse		1e4				IO	
IOO	pick-off power for FSS		100mW				IO	

IOO	FSS PD noise level		1e-9V/rtHz					IO	
IOO	COF between EOM and PZT		10kHz					IO	LA
IOO	COF between PZT and MC length	*	a few Hz					IO	LA
IOO	COF between MC length and thermal		TBD					IO	LA
IOO	input angle control range to MC		TBD					IO	
IOO	input angle actuator noise level		TBD					IO	
IOO	RF oscillator phase noise		-160dBc					IO	
IOO	scattered light inside IO chamber		TBD		VA			IO	
IOO	scattered light from IO view port		TBD		VA			IO	
IOO	power attenuation range		100%-0.1%					IO	
IOO	extinction ratio of Faraday Isolator		40dB					IO	
Laser	laser power		180W					IO	LA
Laser	wavelength		1064nm					IO	LA
Laser	free-run frequency noise		100Hz/rtHz at 100Hz					IO	LA
Laser	free-run intensity noise		1e-4 W/W/rtHz					IO	LA
Laser	linewidth		a few kHz					IO	LA
Laser	intensity control range		TBD					IO	LA
Laser	intensity control method		TBD					IO	LA
Laser	chiller temperature		15deg					IO	LA
Laser	Laser temperature		TBD					IO	LA
Laser	Laser temperature control method		water					IO	LA
Laser	frequency control range for EOM		800kHz					IO	LA
Laser	frequency control range for PZT		TBD					IO	LA
Laser	frequency control range for thermal		TBD					IO	LA
MC2	suspension type		Type-C		VI			IO	
MC2	MC-in and MC-out RoC	*	>500km			MI		IO	
MC2	MC-end RoC		40m			MI		IO	
MC2	MC mirror dimension		f100mm, t30mm			MI		IO	
MC2	angle of incidence on MC-end		0.542deg					IO	
MC2	distance of MC-in and MC-out		0.5m					IO	
MC2	beam radius on MC-end		4.377m					IO	
MC2	beam radius on MC-in and MC-out		2.527m					IO	
MC2	MC-end reflectivity		99.99%			MI		IO	
MC2	MC-in and MC-out reflectivity		99.37%			MI		IO	
MC2	cut-off frequency		5.625kHz					IO	
MC2	MC length (roundtrip)		53.333m		VA			IO	
MC2	MC finesse		500		VA	MI		IO	

MC2	output polarization		S-polarization		MI	IF	IO
MC2	output frequency noise		TBD			IF	IO
MC2	output intensity noise		TBD			IF	IO
MC2	output beam jitter		TBD			IF	IO
MC2	HOM suppression		1e-3			IF	IO
MC2	control band (FSS slow)		TBD		VI	IF	EL IO LA
MC2	QPD noise		1e-9 V/rtHz			IF	EL IO
MC2	(coupling factor from ASC to LSC)		1e-4 m/rad			IF	IO
MC2	Beam centering error		0.1mm			IF	IO
MC2	PD dynamic range		TBD			IF	EL IO
MC2	QPD dynamic range		TBD			IF	EL IO
MIF	contrast defect (alignment etc)	*	0.5%			IF	
MIF	AS POM reflectivity (if any)	*	0		VA VI	IF	
MIF	(laser power in PRC)		825W			IF	IO LA
MIF	(total optical loss in SRC)		2%		MI	IF	IO
MIF	quantum efficiency (DC PD)		90%			IF	EL IO
MIF	demodulation function		square wave			IF	IO
MIF	differential offset on arm cavities		+/- 2e-12m			IF	IO
MIF	(DC readout phase)		134.5deg (DRSE)			IF	IO
MIF	detune phase		3.55deg			IF	
MIF	PRM-PR2 distance		14.761m		VA	IF	
MIF	PR2-PR3 distance		12.067m		VA	IF	
MIF	PR3-BS distance		14.764m		VA	IF	
MIF	SRM-SR2 distance		14.761m		VA	IF	
MIF	SR2-SR3 distance		12.067m		VA	IF	
MIF	SR3-BS distance		14.764m		VA	IF	
MIF	folding angle		0.6293deg		VA	IF	
MIF	BS-ITM average distance		25.0285m		VA	IF	
MIF	(PRC length)		66.6205m		VA	IF	
MIF	(SRC length)		66.6205m		VA	IF	
MIF	Gouy phase shift in PRC		20deg			IF	
MIF	Gouy phase shift in SRC		20deg			IF	
MIF	arm length	*	3km		VA	IF	
MIF	asymmetry length		3.3310m		VA	IF	
MIF	f1 sideband frequencies		16.875MHz			IF	IO
MIF	f1 sideband types		PM			IF	IO
MIF	f1 sideband modulation depths	*	0.2 at IFO			IF	IO

MIF	f2 sideband frequencies		45MHz			IF	IO
MIF	f2 sideband types		PM			IF	IO
MIF	f2 sideband modulation depths	*	0.2 at IFO			IF	IO
MIF	f3 sideband freq (if any)		39.375MHz			IF	EL IO
MIF	f2 sideband types (if any)		AM			IF	EL IO
MIF	f2 sideband modulation depths (if any)		TBD			IF	IO
MIF	MZ configuration		single, if any			IF	IO
MIF	tilt noise on each WFS DOF		TBD		VI	IF	
MIF	(coupling factor from ASC to LSC)	*	1e-4m/rad		VI	IF	
MIF	Beam centering error on TM	*	0.1mm		VI	IF	
MIF	QPD dynamic range		TBD			IF	EL
MIF	QPD noise level for transmitted light	*	1e-9V/rtHz			IF	EL
MIF	Oplev QPD noise level		TBD			IF	EL
MIF	Oplev control band width for pit, yaw	*	3Hz			IF	EL
MIF	maximum DC voltage for demo signal		100mV			IF	EL
MIF	electric noise on demo signal		1e-9V/rtHz			IF	EL
MIF	CARM UGF		10kHz		VI	IF	EL
MIF	DARM UGF		200Hz		VI	IF	EL
MIF	PRCL UGF		20Hz		VI	IF	EL
MIF	MICH UGF		20Hz		VI	IF	EL
MIF	SRCL UGF		20Hz		VI	IF	EL
MIF	PRCL FF gain		100			IF	
MIF	MICH FF gain		100			IF	
MIF	SRCL FF gain		100			IF	
MIF	CARM signal extraction port		REFL		VA	IF	
MIF	DARM signal extraction port		OMCout		VA	IF	
MIF	PRCL signal extraction port		POP		VA	IF	
MIF	MICH signal extraction port		REFL		VA	IF	
MIF	SRCL signal extraction port		REFL		VA	IF	
MIF	RF PD (high power) dynamic range		TBD			IF	EL
MIF	RF PD (low power) dynamic range		TBD			IF	EL
MIF	DC PD (high power) dynamic range		TBD			IF	EL
MIF	DC PD (low power) dynamic range		TBD			IF	EL
MIF	DC PD noise level for transmitted light		TBD			IF	EL
MIF	Green Laser finesse in arms		19 (ITM80%-ETM90%)		MI	IF	
MIF	Green Laser power		100mW			IF	IO LA
MIF	Green laser's frequency gap (X and Y)		100MHz			IF	IO LA

MIF	Green Laser phase lock tightness		TBD				IF	IO	LA
MIF	Green laser Injection Point		PR3 and SR3	VA			IF	IO	
MIF	BS reflectivity for green		<1%		MI		IF		
MIF	PR2, SR2 reflectivity for green		<1%		MI		IF		
MIF	PR3, SR3 reflectivity for green		<1%		MI		IF		
MIF	rms fluctuation of DARM		1e-14m	VI			IF	IO	
MMT	suspension type		Type-C	VI				IO	
MMT	MMT mirror dimension		f100mm, t30mm		MI			IO	
MMT	MMT1 RoC		20.6m		MI			IO	
MMT	MMT2 RoC		26.1m		MI			IO	
MMT	distance of MC-out and MMT1		5.8m				IF	IO	
MMT	distance of MMT1 and MMT2		5.6m				IF	IO	
MMT	distance of MMT2 and PRM		5.8m				IF	IO	
OMC	number of mirrors		4		MI		IF	IO	
OMC	OMC optical loss	*	1%		MI		IF	IO	
OMC	OMC length	*	38cm	VA			IF	IO	
OMC	OMC finesse	*	1000 (too high for 1% loss)				IF	IO	
OMC	OMC displacement noise		TBD	VI			IF	IO	
OMC	actuator range		TBD				IF	EL	IO
OMC	actuator noise level		TBD				IF	EL	IO
OMC	RF reduction ratio		110dB				IF	IO	
OMC	dither frequency for length control		TBD				IF	DG	IO
OMC	dither frequency for angle control		TBD				IF	DG	IO
OMC	dither PD noise level		1e-9 V/rtHz				IF	EL	IO
OMC	dither QPD noise level		1e-9 V/rtHz				IF	EL	IO
PMC	number of mirrors		4	VI	MI			EL	IO
PMC	cavity length		48.8cm					IO	
PMC	finesse		155					IO	
PMC	RF PD noise level		1e-9 V/rtHz					IO	
PMC	actuator range		TBD					EL	IO
PMC	actuator noise level		TBD					EL	IO
PRMs	PM1 radius		12.5cm	VI	MI				
PRMs	PM1 thickness		10cm	VI	MI				
PRMs	PM2 radius		12.5cm	VI	MI				
PRMs	PM2 thickness		10cm	VI	MI				
PRMs	PM3 radius		12.5cm	VI	MI				
PRMs	PM3 thickness		10cm	VI	MI				



PRMs	PRM reflectivity	90%			MI	IF	
PRMs	PRM optical loss	100ppm			MI	IF	
PRMs	RoC of PRM	370m			MI	IF	IO
PRMs	RoC of PR2	4.17m			MI	IF	IO
PRMs	RoC of PR3	32.34m			MI	IF	IO
PRMs	wedge angle of PRM	* 0.3deg		VA	MI	IF	IO
RM	mass of RMTM	30kg			VI	CR	
RM	material of RMTM	Cu			VI	CR	
RM	outer diameter	29cm			VI	CR	
RM	inner diameter	26cm			VI	CR	
RM	thickness	26cm			VI	CR	
RM	temperature of RMTM	20K			VI	CR	
RM	emmissivity of surface of RMTM	0.02			VI	CR	
RM	specific heat of RMTM	TBD			VI	CR	
RM	thermal conductutivity of RMTM	TBD			VI	CR	
RM	number of coil	4			VI	CR	EL
RM	resistance of coil	TBD			VI	CR	EL
RM fiber	material	BeCu			VI	CR	
RM fiber	thermal conductivity	TBD			VI	CR	
RM fiber	length	30cm			VI	CR	
RM fiber	diameter	0.4mm			VI	CR	
RM fiber	number of fibers	4			VI	CR	
RM fiber	Young's modulus	130GPa			VI	CR	
RM fiber	density	8360kg/m <sup>3</sup>			VI	CR	
RM fiber	effective temperature	16K			VI	CR	
RM fiber	loss	5e-6			VI	CR	
RM fiber	yaw-mode resonant frequency	TBD			VI	CR	
RM fiber	pitch-mode resonant frequency	TBD			VI	CR	
RM fiber	yaw-mode loss	TBD			VI	CR	
RM fiber	pitch-mode loss	TBD			VI	CR	
RM fiber	yaw-mode moment of inertia	TBD			VI	CR	
RM fiber	pitch-mode moment of inertia	TBD			VI	CR	
SAS	Vertical horizontal coupling	worse 1/200		TU FA VA	VI MI	IF	GE
SAS	TM seismic motion	Type-I 4e-20m/rtHz at 10Hz		VA	VI MI	IF	GE
SAS	PRM seismic moiton	Type-I 2e-21m/rtHz at 10Hz			VI	IF	
SAS	SRM seismic motion	Type-I 2e-21m/rtHz at 10Hz			VI	IF	
SAS	OMC seismic motion	TBD			VI	IF	IO

SAS	adjustable distance (DC)	*	1cm		VI		IF	EL
SAS	actuation range (AC)		TBD		VI		IF	EL
SAS	actuator noise		TBD		VI			EL
SAS	TF from actuators to test mass		TBD		VI	MI	IF	
SAS	RMS displacement		0.1um		VI	MI	IF	DG
SAS	RMS velocity		0.1um/s		VI	MI	IF	DG
SAS	RMS pitch		TBD		VI	MI	IF	DG
SAS	RMS yaw		TBD		VI	MI	IF	DG
SAS	speed of sound		TBD	TU FA	VI			GE
SAS	CMRR (3km)		TBD	TU FA	VI			GE
SAS	CMR cutoff frequency		TBD	TU FA	VI			GE
SAS	local seismic motion at center		2e-9 m/rtHz at 1Hz	TU FA	VI	CR		GE
SAS	local seismic motion at itmx		2e-9 m/rtHz at 1Hz	TU FA	VI	CR		GE
SAS	local seismic motion at itmy		2e-9 m/rtHz at 1Hz	TU FA	VI	CR		GE
SAS	local seismic motion at etmx		2e-9 m/rtHz at 1Hz	TU FA	VI	CR		GE
SAS	local seismic motion at etmy		2e-9 m/rtHz at 1Hz	TU FA	VI	CR		GE
SRMs	SM1 radius		12.5cm		VI	MI		
SRMs	SM1 thickness		10cm		VI	MI		
SRMs	SM2 radius		12.5cm		VI	MI		
SRMs	SM2 thickness		10cm		VI	MI		
SRMs	SM3 radius		12.5cm		VI	MI		
SRMs	SM3 thickness		10cm		VI	MI		
SRMs	SRM reflectivity		85%			MI	IF	
SRMs	SRM optical loss		100ppm			MI	IF	
SRMs	RoC of SRM		370m			MI	IF	IO
SRMs	RoC of SR2		4.17m			MI	IF	IO
SRMs	RoC of SR3		32.34m			MI	IF	IO
SRMs	wedge of SRM	*	0.3deg	VA		MI	IF	IO
TM	actuator power on ITM		TBD				IF	EL
TM	actuator power on ETM		TBD				IF	EL
TM	material of TM		Sapphire		VI	MI	CR	
TM	dimension		f250 x t150		VI	MI	CR	
TM	emmissivity of surface of TM		TBD			MI	CR	
TM	specific heat of TM		0.69 J/K/kg			MI	CR	
TM	thermal conductucivity of TM		1.57e4 W/m/K			MI	CR	
TM	Outer Diameter		25cm		VI	MI	CR	
TM	Outer Diameter Flat to Flat	*	24.6cm		VI	MI	CR	

TM	scratches and sleeks on two surfaces	TBD	VI MI CR
TM	point defects on two surfaces	TBD	VI MI CR
TM	central region surface rms	0.3nm (d<12cm)	VI MI CR IF
TM	outer region surface rms	* 1nm (d>12cm)	VI MI CR IF
TM	AR side surface flatness	TBD	VI MI CR IF
TM	ROC seen from AR side	TBD	VI MI CR IF
TM	coating / substrate homogeneity	TBD	VI MI CR IF
TM	dr/dt of AR (reflectivity change)	TBD	VI MI CR IF
TM	point scattering	TBD	VI MI CR IF
TM	surface quality after coating	TBD	VI MI CR IF
TM	birefringence	TBD	VI MI CR IF
TM	beam radius on ETM	4.53cm	MI IF
TM	beam radius on ITM	3.43cm	MI IF
TM	mirror radius of ETM	12.5cm	VI MI
TM	mirror radius of ITM	12.5cm	VI MI
TM	mirror bulk density of ETM	4000 kg/m <sup>3</sup>	VI MI
TM	mirror buld density of ITM	4000 kg/m <sup>3</sup>	VI MI
TM	mirror temperature of ETM	20K	VI MI CR
TM	mirror tempeprature of ITM	20K	VI MI CR
TM	Young's modulus of ETM substrate	400GPa	MI
TM	Young's modulus of ITM substrate	400GPa	MI
TM	mirror bulk Poisson ratio of ETM	0.29	MI
TM	mirror bulk Poisson ratio of ITM	0.29	MI
TM	mirror thermal expansion of ETM	5.6e-9 1/K	MI CR
TM	mirror thermal expansion of ITM	5.6e-9 1/K	MI CR
TM	mirror specific heat of ETM	0.69 J/K/kg	MI CR
TM	mirror specific heat of ITM	0.69 J/K/kg	MI CR
TM	mirror thermal conductivity of ETM	1.57e4 W/m/K	MI CR
TM	mirror thermal conductivity of ITM	1.57e4 W/m/K	MI CR
TM	mirror mechanical loss of ETM	1e-8	MI CR
TM	mirror mechanical loss of ITM	1e-8	MI CR
TM	silica coating Youngs modulus	72GPa	MI CR
TM	tantala coating Youngs modulus	140GPa	MI CR
TM	silica coating Poisson ratio	0.17	MI CR
TM	tantala coating Poisson ratio	0.23	MI CR
TM	silica coating loss	3e-4	MI CR
TM	tantala coating loss	5e-4	MI CR

IO  
IO

TM	silica coating specific heat per volume		1.64e6 J/K/m <sup>3</sup>	MI	CR
TM	tantala coating specific heat per volume		2.10e6 J/K/m <sup>3</sup>	MI	CR
TM	silica coating thermal expansion		5.1e-7 1/K	MI	CR
TM	tantala coating thermal expansion		3.6e-6 1/K	MI	CR
TM	silica coating thermal conductivity		1.38 W/m/K	MI	CR
TM	tantala coating thermal conductivity		33 W/m/K	MI	CR
TM	number of layers on ETM		18	MI	CR
TM	number of layers on ITM		9	MI	CR
TM	coating absorption	challer	0.5ppm	MI	CR
TM	AR surface absorption		1ppm	MI	CR
TM	mirror contamination		TBD	MI	CR
TM	ETM reflectivity		0.999945	MI	IF
TM	ITM reflectivity		0.996	MI	IF
TM	ETM optical loss		45ppm	MI	IF
TM	ITM optical loss		45ppm	MI	IF
TM	optical loss imbalance		+/-15ppm	MI	IF
TM	finesse imbalance		0.5%	MI	IF
TM	ITM substrate optical loss		20ppm/cm	MI	CR IF
TM	ITM AR surface optical loss	*	1000ppm	MI	IF
TM	ETM mass		30kg	MI	IF
TM	ITM mass		30kg	MI	IF
TM	RoC error of ETM	*	1%	MI	IF
TM	RoC error of ITM	*	1%	MI	IF
TM	RoC of ETM		7km	MI	IF
TM	RoC of ITM		>500km	MI	IF
TM	RoC imbalance in two arms	*	0.5%	MI	IF
TM	wedge angle of ETM	*	0.3deg	VA MI	IF
TM	wedge angle of ITM	*	0.3deg	VA MI	IF
TM fiber	uniformity of TM fiber		TBD	VI	CR
TM fiber	material		Sapphire	VI	CR
TM fiber	thermal conductivity	*	7kW/m/K at 20K	VI	CR
TM fiber	length		30cm	VI	CR
TM fiber	diameter		1.6mm	VI	CR
TM fiber	number of fibers		4	VI	CR
TM fiber	Young's modulus		400GPa	VI	CR
TM fiber	density		4000kg/m <sup>3</sup>	VI	CR
TM fiber	effective temperature		16	VI	CR

TM fiber	loss	2e-7	VI	CR
TM fiber	yaw-mode resonant frequency	TBD	VI	CR
TM fiber	pitch-mode resonant frequency	TBD	VI	CR
TM fiber	yaw-mode loss	TBD	VI	CR
TM fiber	pitch-mode loss	TBD	VI	CR
TM fiber	yaw-mode moment of inertia	TBD	VI	CR
TM fiber	pitch-mode moment of inertia	TBD	VI	CR