

		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 ²				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	power supply conector selection	TBD				IF	EL	
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	diamter of borehole for SAS	TUN 1.2m	TU	FA	VA	VI		
Facility	flange flatness	VAC 0.1mm			VA			
Facility	flange thickness	VAC 30mm			VA			
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)	radius of U	TBD						
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 (Sh-PF)	material		6N Aluminum	VI	CR		
HL (Sh-PF)	number		7	VI	CR		
HL (Sh-PF)	length		TBD	VI	CR		
HL (Sh-PF)	radius of U		25cm				
HL (Sh-PF)	spring constant		TBD	VI	CR		
HL (Sh-PF)	diameter		1mm	VI	CR		
HL (Sh-PF)	loss		TBD	VI	CR		
HL (PF-IM)	material		6N Aluminum	VI	CR		
HL (PF-IM)	number		5	VI	CR		
HL (PF-IM)	length		TBD	VI	CR		
HL (PF-IM)	radius of U		20cm				
HL (PF-IM)	spring constant		TBD	VI	CR		
HL (PF-IM)	diameter		3mm	VI	CR		
HL (PF-IM)	loss		5e-5	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	spacific heat of IM		TBD	VI	CR		
IM	thermal conducutivity of IM		TBD	VI	CR		
IM	local sensor for IM		position-sensor	VI	CR		EL
IM	local control for IM		magnet-coil	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 ³	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			IF	IO LA
IOO	COF between PZT and MC length	*	a few Hz			IF	IO LA
IOO	COF between MC length and thermal		TBD			IF	IO LA
IOO	input angle control range to MC		TBD			IF	IO
IOO	input angle actuator noise level		TBD			IF	IO
IOO	RF oscillator phase noise		-160dBc			IF	IO
IOO	scattered light inside IO chamber		TBD	VA		IF	IO
IOO	scattered light from IO view port		TBD	VA		IF	IO
IOO	power attenuation range		100%-0.1%			IF	IO
IOO	extinction ratio of Faraday Isolator		40dB			IF	IO
Laser	laser power		180W			IF	IO LA
Laser	wavelength		1064nm			IF	IO LA
Laser	free-run frequency noise		100Hz/rtHz at 100Hz			IF	IO LA
Laser	free-run intensity noise		1e-4 W/W/rtHz			IF	IO LA
Laser	linewidth		a few kHz			IF	IO LA
Laser	intensity control range		TBD			IF	IO LA
Laser	intensity control method		TBD			IF	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			IF	IO LA
Laser	frequency control range for PZT		TBD			IF	IO LA
Laser	frequency control range for thermal		TBD			IF	IO LA
MC2	suspension type		Type-C	VI		IF	IO
MC2	MC-in and MC-out RoC	*	>500km	MI		IF	IO

MC2	MC-end RoC		40m			MI	IF	IO
MC2	MC mirror dimension		f100mm, t30mm			MI	IF	IO
MC2	angle of incidence on MC-end		0.542deg				IF	IO
MC2	distance of MC-in and MC-out		0.5m				IF	IO
MC2	beam radius on MC-end		4.377m				IF	IO
MC2	beam radius on MC-in and MC-out		2.527m				IF	IO
MC2	MC-end reflectivity		99.99%			MI	IF	IO
MC2	MC-in and MC-out reflectivity		99.37%			MI	IF	IO
MC2	cut-off frequency		5.625kHz				IF	IO
MC2	MC length (roundtrip)		53.333m		VA		IF	IO
MC2	MC finesse		500		VA	MI	IF	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/rHz				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	f3 sideband types (if any)		AM		IF	EL IO
MIF	f3 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					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/rHz			IF		EL IO
OMC	dither QPD noise level		1e-9 V/rHz			IF		EL IO
PMC	number of mirrors		4		VI MI		EL	IO

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-1 4e-20m/rtHz at 10Hz		VA	VI MI		IF		GE
SAS	PRM seismic motion	Type-1 2e-21m/rtHz at 10Hz			VI		IF		
SAS	SRM seismic motion	Type-1 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	temperature		20K		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 conductivity 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	local sensor of TM		position-sensor, oplev				
TM	local actuator of TM		ESD				
TM	RRR of material		TBD				
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
TM	outer region surface rms	*	1nm (d>12cm)		VI	MI	CR
TM	AR side surface flatness		TBD		VI	MI	CR
TM	ROC seen from AR side		TBD		VI	MI	CR
TM	coating / substrate homogeneity		TBD		VI	MI	CR
TM	dr/dt of AR (reflectivity change)		TBD		VI	MI	CR
TM	point scattering		TBD		VI	MI	CR
TM	surface quality after coating		TBD		VI	MI	CR
TM	birefringence		TBD		VI	MI	CR
TM	beam radius on ETM		4.53cm			MI	IF
TM	beam radius on ITM		3.43cm			MI	IF
TM	mirror bulk density of ETM		4000 kg/m ³		VI	MI	
TM	mirror buld density of ITM		4000 kg/m ³		VI	MI	
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
TM	silica coating specific heat per volume		1.64e6 J/K/m ³	MI	CR
TM	tantala coating specific heat per volume		2.10e6 J/K/m ³	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	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		none	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 ³	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					
Env sensor	number of thermometer in laser room		1 (low reso)	FA	VI	IF	DG	IO	LA	GE	
Env sensor	number of thermometer in chambers		5 (low reso)	FA	VI	IF	DG	IO	LA	GE	
Env sensor	number of thermometer in center room		2	FA	VI	IF	DG			GE	
Env sensor	number of thermometer in end rooms		4	FA	VI	IF	DG			GE	
Env sensor	number of thermometer in geo area		4	FA	VI	IF	DG			GE	
Env sensor	number of thermometer in tunnels		10	FA	VI	IF	DG			GE	
Env sensor	number of hygrometer in center room		2	FA	VI	IF	DG			GE	
Env sensor	number of hygrometer in end rooms		4	FA	VI	IF	DG			GE	
Env sensor	number of hygrometer in geo area		4	FA	VI	IF	DG			GE	
Env sensor	number of hygrometer in tunnels		10	FA	VI	IF	DG			GE	
Env sensor	number of barometer in center room		1	FA	VI	IF	DG			GE	
Env sensor	number of barometer in end rooms		2	FA	VI	IF	DG			GE	
Env sensor	number of barometer in geo area		4	FA	VI	IF	DG			GE	
Env sensor	number of barometer in tunnels		2	FA	VI	IF	DG			GE	
Env sensor	number of accelerometer in laser room		1 (vibration monitor)	FA	VI	IF	DG	IO	LA	DA	GE
Env sensor	number of accelerometer in chambers		5 (vibration monitor)	FA	VI	IF	DG	IO	LA	DA	GE
Env sensor	number of accelerometer in center room		1	FA	VI	IF	DG			DA	GE
Env sensor	number of accelerometer in end rooms		2	FA	VI	IF	DG			DA	GE
Env sensor	number of accelerometer in geo area		4	FA	VI	IF	DG			DA	GE

Env sensor	number of accelerometer in tunnels	0
Env sensor	number of particle meter in center room	1
Env sensor	number of particle meter in end rooms	2
Env sensor	number of particle meter in geo area	2
Env sensor	number of seismometer in tunnels	2
Env sensor	number of microphone in center room	2
Env sensor	number of microphone in end rooms	2

