	Weekly scho	dule					Week 2	1	Beam online Wednesday Thursday 12.08.2020 13.08.2020			Week 3						Week 4	1					Week 5					Week 6		
Tasks (details given)	Monday 03.08.2020	Tuesday 04.08.2020	Wednesday 05.08.2020	Thursday 06.08.2020	Friday 07.08.2020	Saturday 5	iunday Monday 19.08.2020 10.08.2020	Tuesday 11.08.2020	Wednesday Thursday 12.08.2020 13.08.2020	Friday Saturday 14.08.2020 15.08.2020	Sunday 16.08.2020	Monday 17.08.2020	Tuesday Wi 18.08.2020 19	ednesday 1 .08.2020	Thursday Fr 20.08.2020 2:	riday S 1.08.2020 2	aturday S 2.08.2020 2	iunday Monday 13.08.2020 24.08.2020	Tuesday 25.08.2020	Wednesday 26.08.2020	Thursday Friday 27.08.2020 28.08.2020	Saturday 29.08.2020	Sunday 30.08.2020	Monday 1 31.08.2020 0	uesday Wednesday 01.09.2020 02.09.2020	Thursday 03.09.2020	Friday 04.09.2020	Saturday Sunday 05.09.2020 06.09.2020	Monday 07.09.2020	Tuesday V 08.09.2020 /	Nednesday Thursday 09.09.2020 10.09.2020
Installation of the chopper. The chopper is placed in the casemale and aligned to the beamine. Assembly of the chockes have placed by the chockes of the chockes have been placed by the cho																															
Setup of the electrodes, pre assembled with grounding connections added (connect up ground ring and ground electrodes to BNC feedbrough, check electrical connection. Alignment of the electrodes with respect to the beamline.) Requires crane use.																															
Setup of the vacuum chambers (includes adding tubing fo the gas handling system, pump system, gauges, and HV feedthrough). Install HV feedthrough, check electrical connection to the HV electrode. Requires crane use.																															
Installation of the mu-metal (hole cover plates removed, plates craned in and added to the top first, then bottom, then sides. Connections for gas handling, pumping, HV feedthrough, and gauges added before adding the top hat mu-metal pieces.) Requires crane use.				ı																											
Begin pump down of system (for HV use, goal of E-6/E-5 mbar)																															
Installation of equipment (racks, servers, power supplies, chopper, monitoring equipment, gas handling, analyzer, detector. Attach equipment to various devices.)																															
Systematic equipment check (device by device, checking everything is attached correctly and will readout data correctly in MIDAS.)																															
Chopper characterization (cafely check with next on flux, chopper in open/closed position, checks if white beam can be used to will be used to will take aday for safely check. Measurement of the chopper from 5 to 5 Segress, stepping window of the chopper from 5 to 5 Segress, stepping window of the chopper from 5 to 5 Segress, stepping 102 degrees. Perform For Segrest measurement frequencies 4 to 16 Hz, stepp 4 2/4 Hz, fled the frequency before frame overlay. Measure plass distribution between the spin flippers, determine the optimal pico settings.)	t							Radiation safely check																							
Detector check (if detector does not operate as at BOA then HV/CPIX scan maybe required. Also perform measurement with pulsed beam to make sure ToF's are correct. CPIX scan OPTIONALI)																															
Detector stability (perform 24 hour measurement with pulsed beam, observe ToF spectrum only).									overnight run																						
Beamspot characterisation (define the position of the mirrors in the analyzer on the detector, maybe need to move the detector to get better definition, guide field coils may need adjustment).																														ı	
Rabi technique (measurement with pulsed beam, scan rough frequency, then fine frequency scan, only one SF at time)	1																														
Ramsey technique (compute average of the frequency and fine scan around it for both SF lock: Then back to Rabi and check the amplitude for both SF with this freq. (should not change the amplitude), perform classic Ramsey.)																															
vxE measurement (magnetic field direction is set along th transversal axis to 100 ut. All SF are set for sinusoidal field with amplitude/frequency the same. After, perform Ramsey measurement with no modulation, HV applied at various steps to observe the effect)													П																	ı	
Scan of the modulated signal (rough scan parameters of the modulated waveform, changing; t0 and t1. This needs to be done for both SF independently. Then fine scan to optimise the modulation.)																															
Magnetic field scan using Ramsey technique (vary the set magnetic field over several Ramsey measurements, systematic check.) OPTIONAL!																															
Systematics check (if time available, HV conditioning to be performed)																															
Stability check (dummy run an EDM measurement over the period of 24 hours to check stability of equipment, no HV)																					overnight run										
EDM measurement (shift plan begins, goal sensitivity < 3 t 24 ecm, requires at minimum 11 days at constant 1 MHz neutron rate and 100 kV/cm (operating at ~ 9.8 E -24 per day), added extra 6 days to minimum to take into account dead time)																									EDM m	neasure	ement				
Begin axion setup (replacement of shades on the chopper, requires cooldown to access casemate. Equipment check during casemate radiation cooldown period)																															Radiation cooldown of casemate
Faxion measurement (waveform generator is used to create the faxion signal) Axion measurement (one day each for even polarity of the														-																-	
HV and one with no HV.) Chopper cooldown (required before removal)																															
Beamtime complete (disassembly of the experiment)																														=	



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Friday 11.09.2020	Saturday 12.09.2020	Sunday 13.09.2020	Week 7 Monday 14.09.2020	Tuesday 15.09.2020	Wednesday 16.09.2020
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	Ax	ion measuren	nent		
					Radiation o
					casei