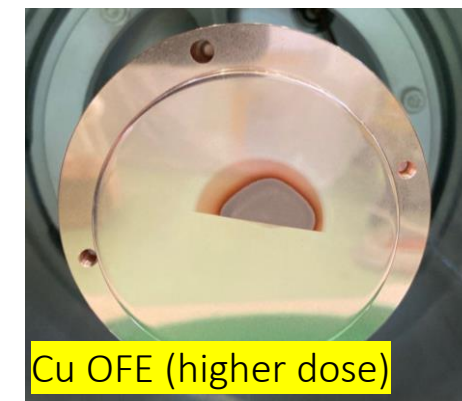
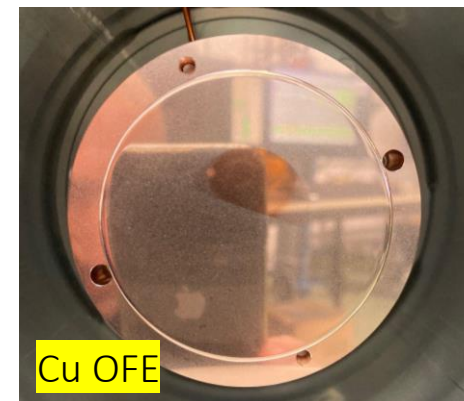
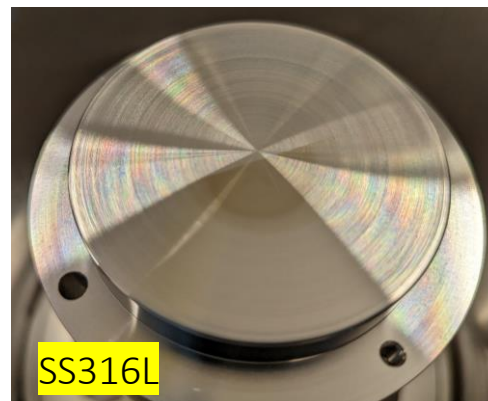
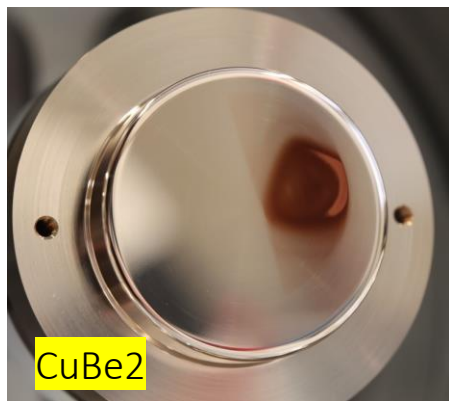


## History - Irradiated electrodes

	2020	2021						
	Cu-OFE	Nb	CuCr1Zr	CuCr1Zr	Ti6Al4V	Ta	Nb	Cu-OFE
Pair of electrodes	#40_RFQ	#43_RFQ	#50_RFQ	#50_RFQ (V2)	#47_RFQ	#XX_RFQ	#44_RFQ	#42_RFQ
Start Date	14/10/2020	26/01/2021	01/02/2021	03/09/2021	27/10/2021	10/12/2021	13/12/2021	16/12/2021
Start Time	18h00m	13h00m	13h00m	17h00m	12h50m	17h40m	16h23m	16h29m
End Date	16/10/2020	01/02/2021	03/02/2021	06/09/2021	29/10/2021	12/12/2021	15/12/2021	18/12/2021
End Time	08h30m	09h00m	14h00m	09h00m	19h40m	23h40m	20h17m	22h32m
Time of irradiation	40h	140h	50h	64h	55h	54h	52h	54h
Total N of H-	1.20E+19	4.88E+18	9.80E+18	1.31E+19	1.20E+19	1.20E+19	1.20E+19	1.20E+19
Current	22 - 31 mA	16 mA	16 mA	20 mA	20 mA	17 mA	21 mA	20 mA
Pulse length	600 us	600 us	600 us	600 us	600 us	600 us	600 us	600 us
Gasket				circular	circular	D-shape	circular	circular
Notes	C-shape		melted				Sent to Jerus.	
LES	80 MV/m	x	x	26 MV/m	90 MV/m	24 MV/m	22 MV/m	20 MV/m

## 2022, irradiated electrodes

	CuBe2	Cu-OFE	SS316L	Cu-OFE	Cu-OFE
Pair	#_RFQ	#_RFQ	#_RFQ	#_RFQ	#_RFQ
Start Date	25/03/2022	29/03/2022	09/11/2022	11/11/2022	26/11/2022
Start Time	15h00m	15h00m	02h04m	18h56m	18h41m
End Date	27/03/2022	31/03/2022	11/11/2022	14/11/2022	04/12/2022
End Time	21h25m	23h43m	06h51m	00h10m	21h55m
Time of irradiation	55h	56h	52h8m	53h14m	179h21min
Total N of H-	0.92E+19	1.16E+19	1.2E+19	1.2E+19	5E+19
Current	18.5 mA	19.3 mA	20 mA	20 mA	45 mA
Pulse length	600 us	600 us	600 us	600 us	600 us
Gasket	D-shape	D-shape	D-shape	D-shape	D-shape
Notes	stored	Sent to Uppsala	LES	stored	stored



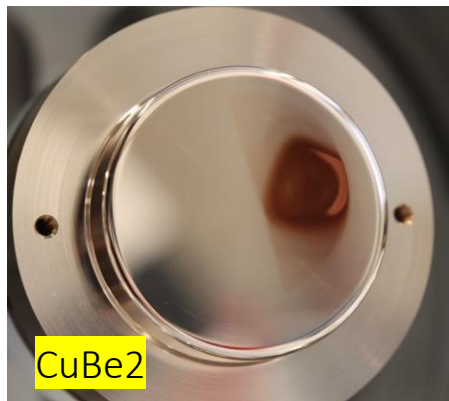
2022, irradiated electrodes

	CuBe2	Cu-OFE	SS316L	Cu-OFE	Cu-OFE
Pair	#_RFQ	#_RFQ	#_RFQ	#_RFQ	#_RFQ
Start Date	25/03/2022	29/03/2022	09/11/2022	11/11/2022	26/11/2022
Start Time	15h00m	15h00m	02h04m	18h56m	18h41m
End Date	27/03/2022	31/03/2022	11/11/2022	14/11/2022	04/12/2022
End Time	21h25m	23h43m	06h51m	00h10m	21h55m
Time of irradiation	55h	56h	52h8m	53h14m	179h21min
Total N of H-	0.92E+19	1.16E+19	1.2E+19	1.2E+19	5E+19
Current	18.5 mA	19.3 mA	20 mA	20 mA	45 mA
Pulse length	600 us	600 us	600 us	600 us	600 us
Gasket	D-shape	D-shape	D-shape	D-shape	D-shape
Notes	stored	Sent to Uppsala	LES	stored	stored

Next on LES3

Almost finished

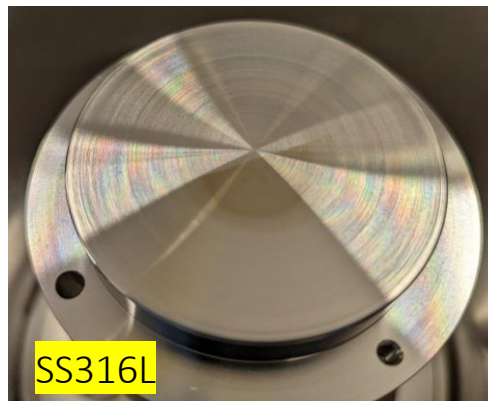
Next on LES2



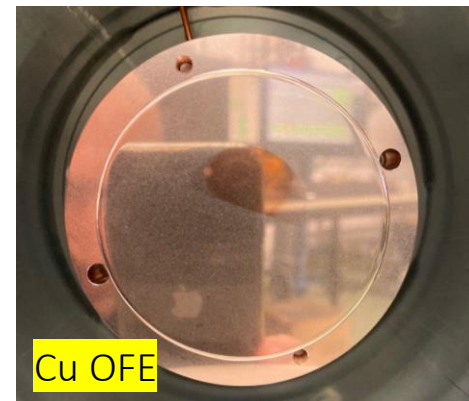
CuBe2



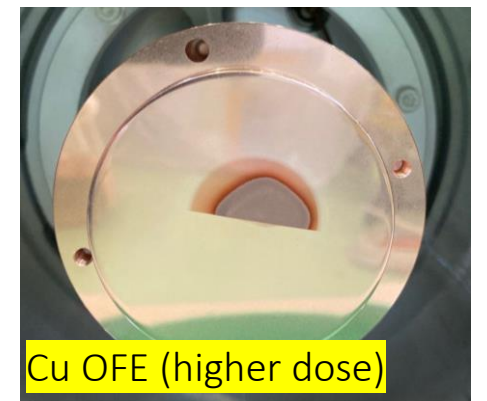
Cu OFE



SS316L



Cu OFE



Cu OFE (higher dose)

# Proposal for 2023

## Slot in May – Still not confirmed

### Some notes:

- CuBe<sub>2</sub> electrodes to be remained after testing in Jerusalem
- Available electrodes at the moment: **TiAl<sub>6</sub>V<sub>4</sub>**
- We can have a Cu-OFE treated in order to be ready. But high dose irradiation was already preformed.

## Slot in September/October:

- Electrodes available: **Cu-OFE – TiAl<sub>6</sub>V<sub>4</sub> – CuBe<sub>2</sub>** (needs to be re-machined)  
Repeat irradiation with the best materials ?  
Higher dose?  
Standard dose?
- Cu sample for the study of blistering – high dose

Notes: Higher dose irradiation ~ 10 days