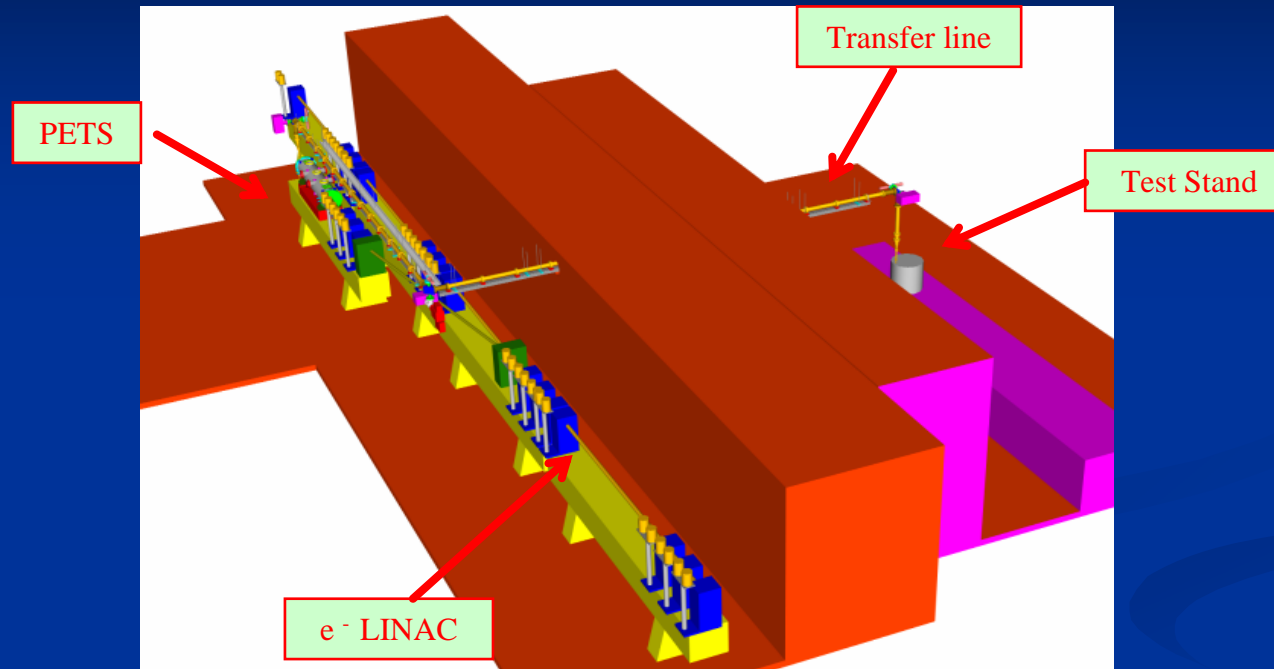


# CLIC Structure Testing Results

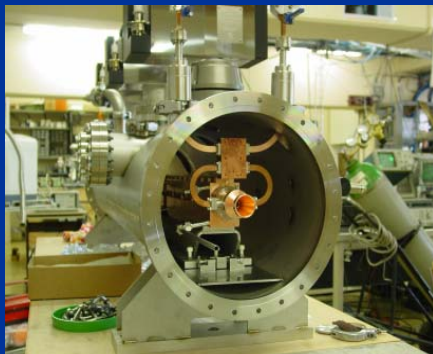
# Contents

- Experimental Setup
- Some characteristics of the structures tested
- Breakdown rates experiments
- Pulse length experiments
- Conditioning history of the Mo HDS 11
- Repetition rate experiments

# Experimental setup: Power production



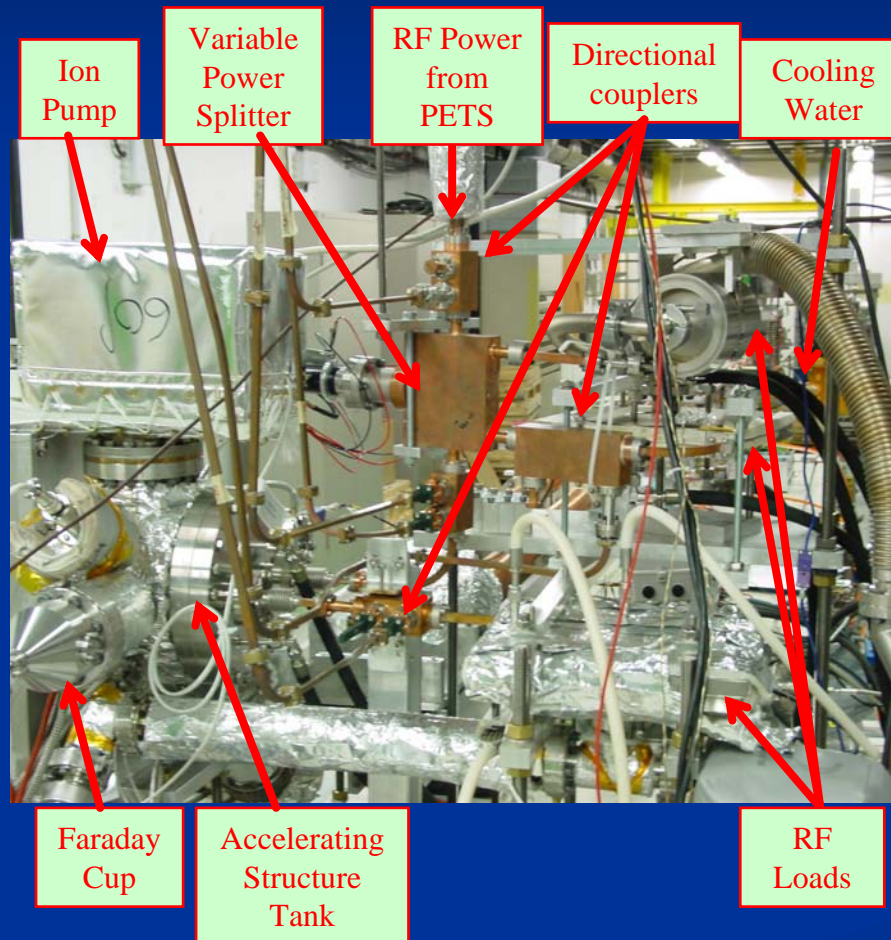
PETS tank in CTF3



30 GHz transfer line.



# Experimental setup: Test stand



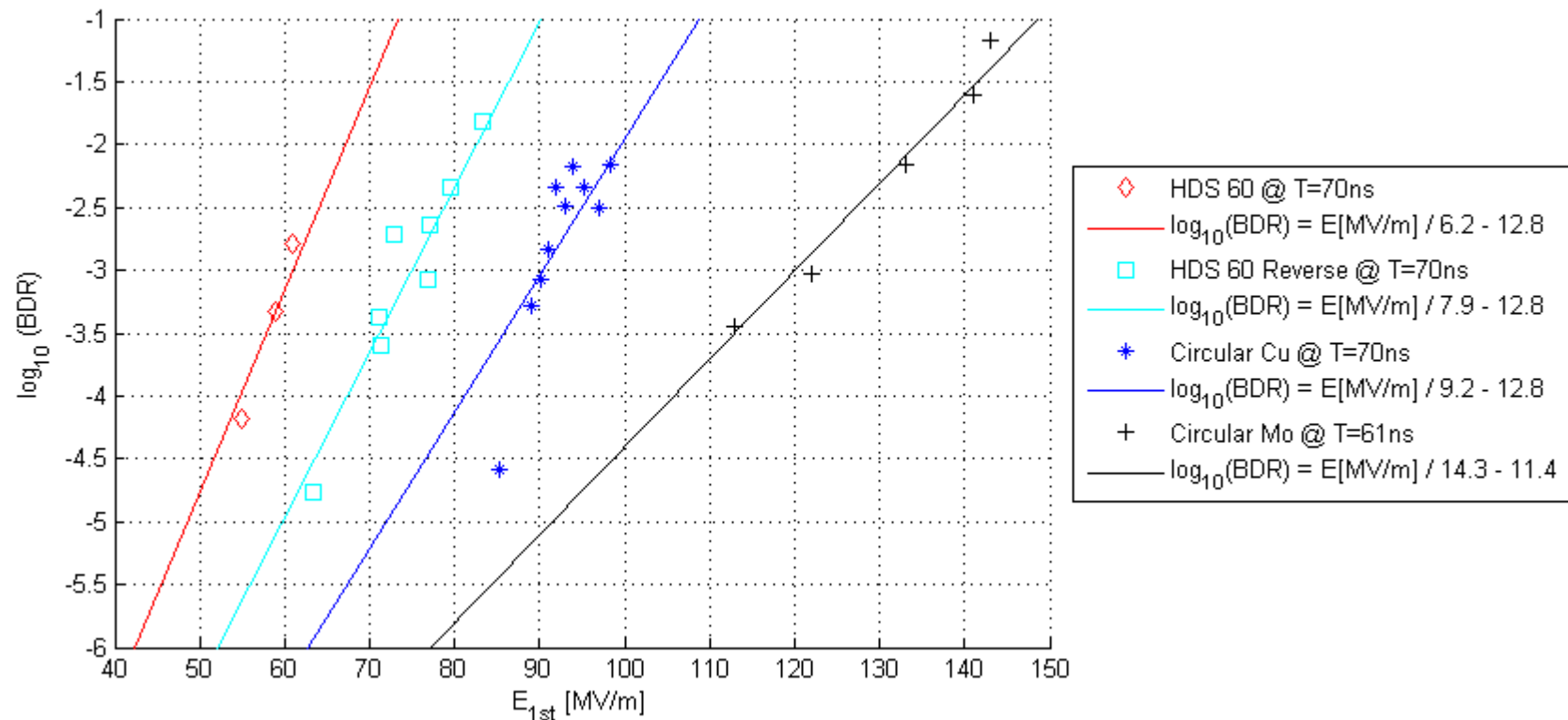
# Structures tested



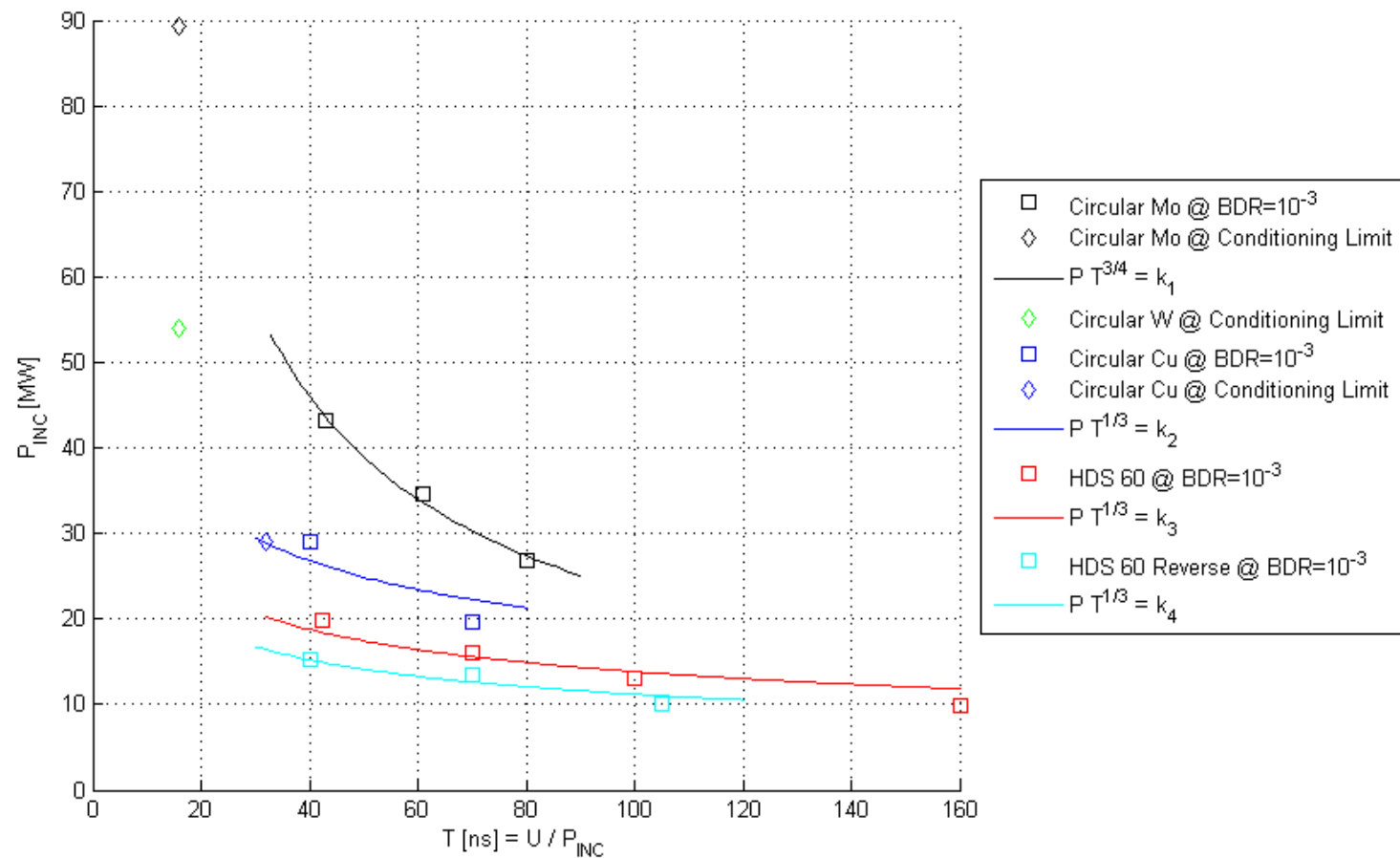
# Structures tested

	Circular Cu		Circular Mo		Circular W	HDS 60 Cu	HDS 60 rev. Cu	HDS 11 Mo
Test	1 CTF2	1 CTF3	1 CTF2	1 CTF3	1 CTF2	1 CTF3	1 CTF3	1 CTF3
Assembly	Brazen Cells		Clamped Cells		Clamped Cells	Clamped quadrants	Clamped quadrants	Clamped quadrants
Number of cells	30		30		30	60	60	11
$P_{INC}$ [MW] @ $E_{1st} = 150$ MV/m	54		54		54	98	54	98
$E_{SURFACE}$ [MV/m] @ $E_{1st} = 150$ MV/m	330		330		330	268	252	268
Testing Time [days]		70		47		45	20	>13
Effective Time [hours]	~56	400	~160	230	~160	375	400	>215
$E_{1st}$ [MV/m] @ 70ns, BDR= $10^{-3}$		90		120		61	75	In progress
$E_{surf}$ [MV/m] @ 70ns, BDR= $10^{-3}$		199		264		109	125	
$E_{1st}$ [MV/m] @ 70ns, BDR= $10^{-6}$		63		77		42	52	
$E_{1st}$ [MV/m] @ 16ns, Conditioning limit	110		193		150			

# Breakdown Rates

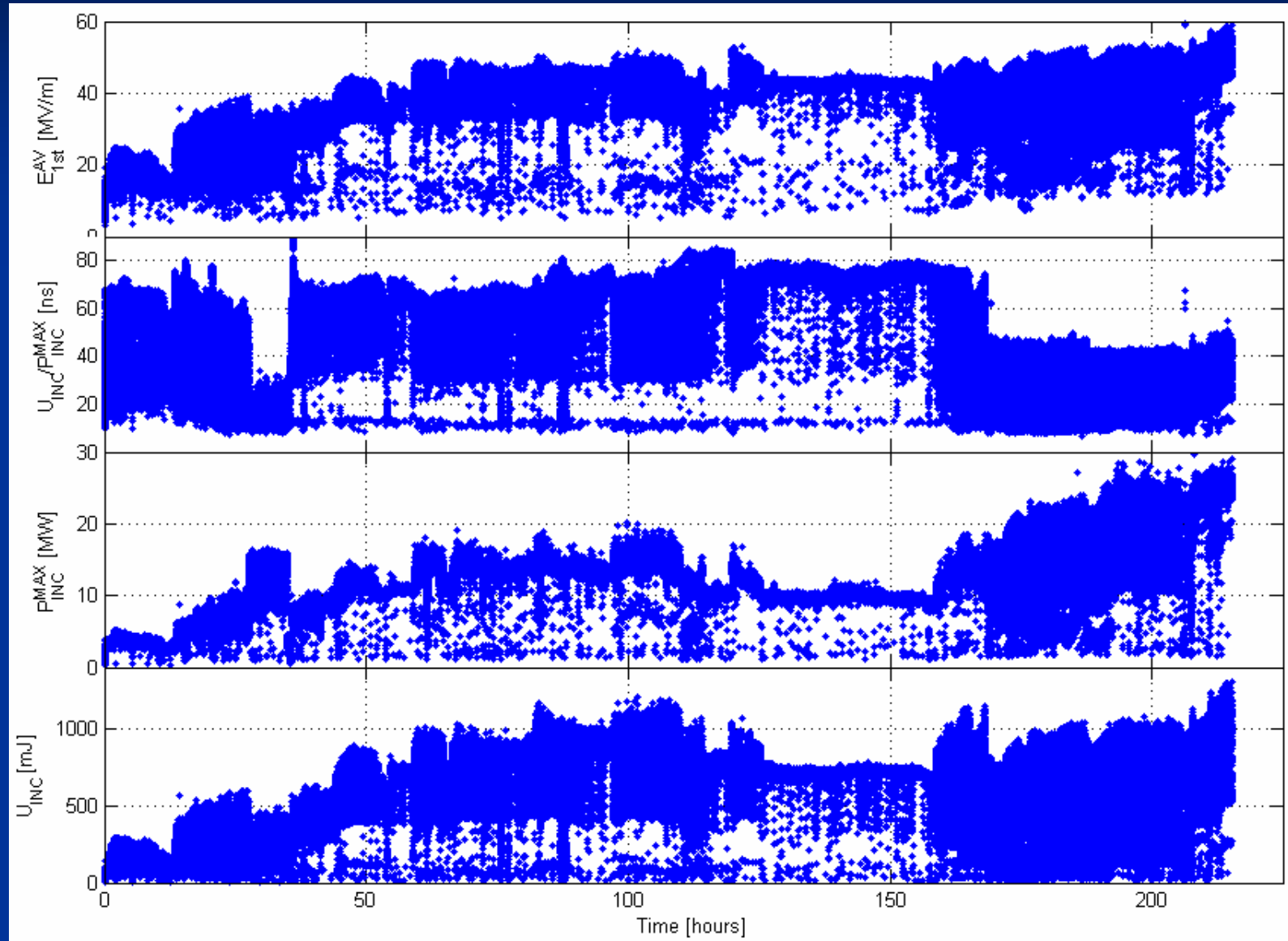


# Pulse Length Dependence





# Mo HDS 11 Conditioning History



# Repetition rate dependence (HDS60 reversed)

