



Work Scheduling for the DC Spark Lab

Anders Korsbäck 17.3.2015



List of Research Cases



- Conditioning study using RF feedback algorithm (Anders/Jorge)
- Two-Rate Model of breakdown statistics (Anders)
- Field emission fluctuations for Yinon (Tomoko)
- Samples for Yinon (Robin?)
- Distribution of time to BD at $BDR = 1$ (Anders)
- Effect of voids on breakdown statistics (Anders)
- Temperature-controlled BD statistics (Tomoko/Anders)
- Ultrasonic breakdown localization (Wilfrid/Robin)
- Dielectric-vacuum interface breakdown study (Hugo)

System	Case	2015				2016			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PPS 1	Adapting xyz manipulator and gap control		Anders						
	Samples for Yinon (FE and BD spots)			Robin?					
PPS 2	Field emission fluctuations for Yinon	Tomoko							
	Temperature control studies	Tomoko?		Anders?					
LES 1	Conditioning study using RF algorithm	Anders, Jorge							
	Effect of voids on BD statistics		Anders*						
LES 2	Hardware & sample procurement		Anastasiya						
	Assembly, test			Hugo					
	Marx generator implementation			Lisbon staff					
	Dielectric-vacuum interface BD study				Hugo				
	Distribution of time to BD at BDR = 1				Anders*				

*Cases require very little hardware-time and can be done during gaps in above activity