## JOS - Josephson Junction Signature Sheet

Student's Name	Partner's Name
Pre-Lab Discussion Question	ns
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period. This signed sheet must be	ass this lab with an instructor before your first day of your scheduled lab be included as the first page of your report. Without it you will lose grade to discuss at least the following before you come to lab:
1. What is a Josephson Junct	ion?
2. What is a Cooper Pair?	
3. How does the DC Josephson	on effect work? What is the AC Josephson effect? How are they useful?
4. Why is it important to kno	ow the number 2e/h; what does it mean?
5. How do you construct the .	Josephson Junction used in this experiment? (Hint 4 wire junction)
6. Explain how you remove th	ne junction assembly from the probe and put it back in.
Staff Signature	Date
Completed before the first day of	f lab? (Circle one) Yes / No
Mid-Lab Discussion Question	ns
	w your photo of the DC effect with calibrated axis and photo of the AC, to a GSI. Also you present your measured corrected value for $2e/h$ , without and ask for a signature.
Staff Signature	Date
Completed by day 3 of lab? (Cir	cle one) Yes / No

## Checkpoint Signatures

1.	Low-Frequency Oscillator
	Staff Signature
2.	<u>Steps</u>
	Staff Signature
3.	DC Effect
	Staff Signature
4.	AC Effect
	Staff Signature
5.	Precise Measurement of the RF Frequency
	Staff Signature