

Endcap Feedthrough Production at Victoria

Status Summary

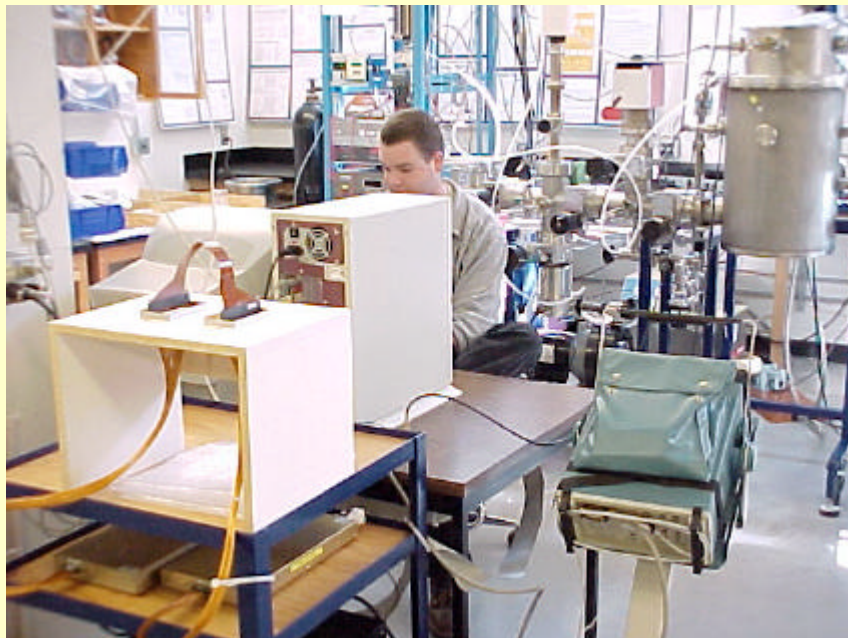
LARG week
07/00

Paul Poffenberger
University of Victoria

Production Vacuum Cable Tests

first batch of 100 cables

trace resistance
contact resistance
impedance
continuity

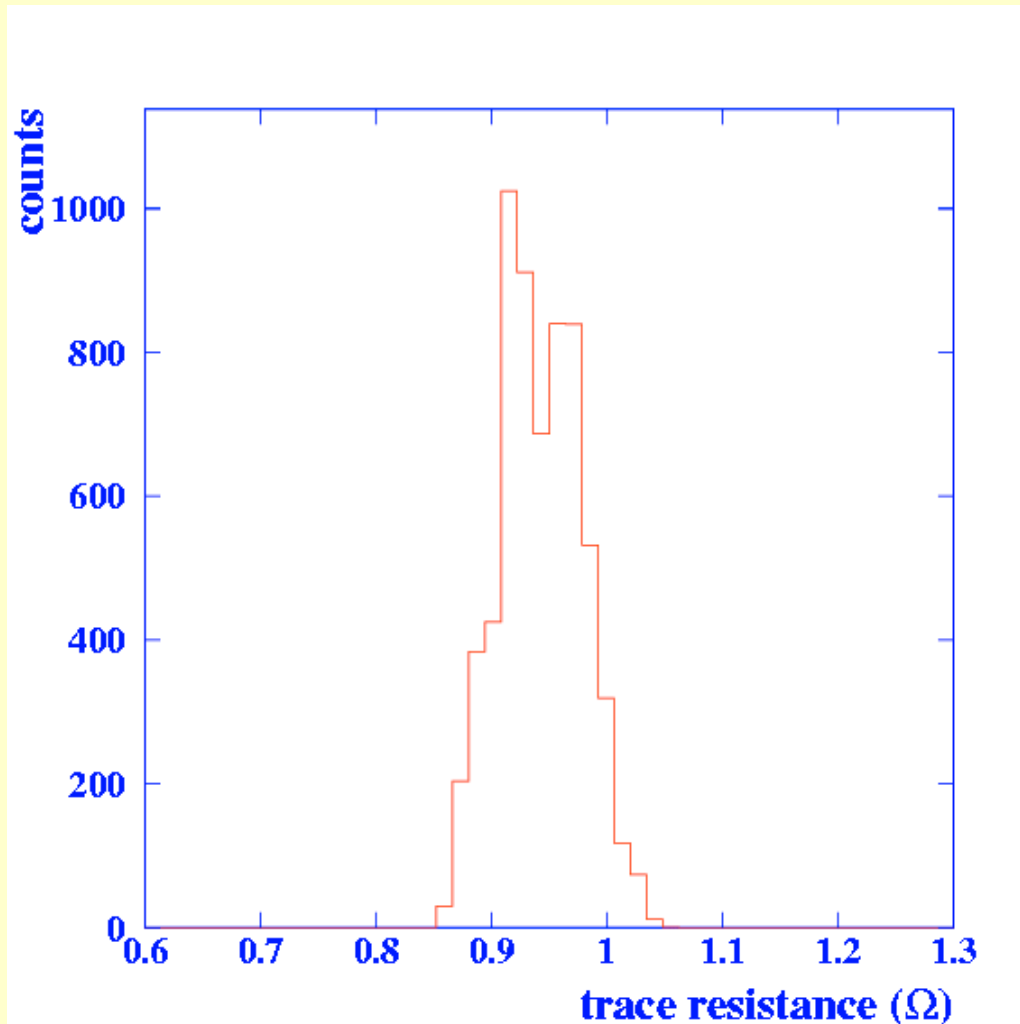


cross talk

LARG week
07/00

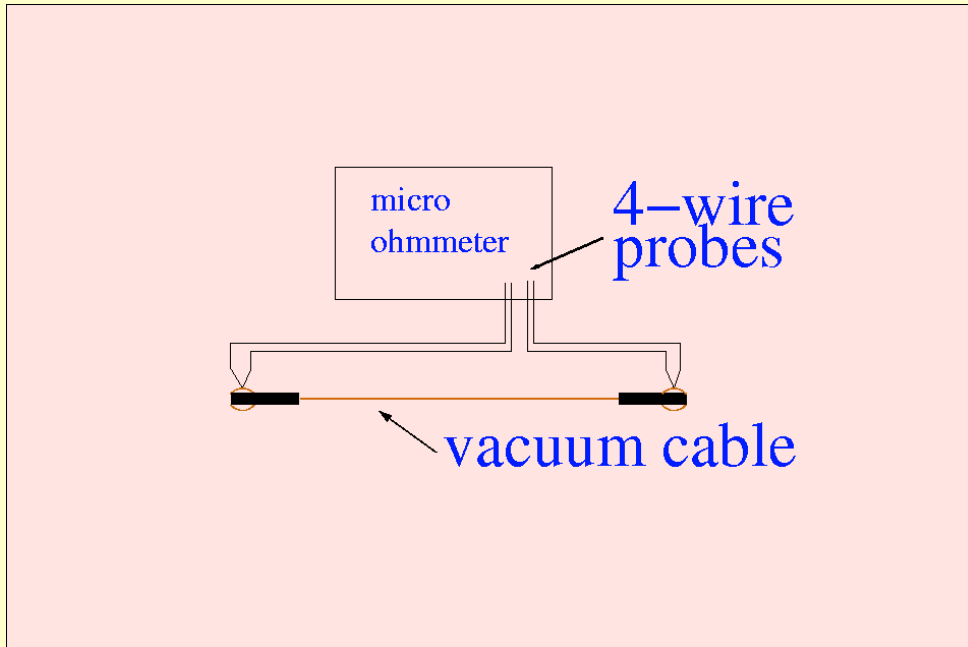
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Trace Resistance

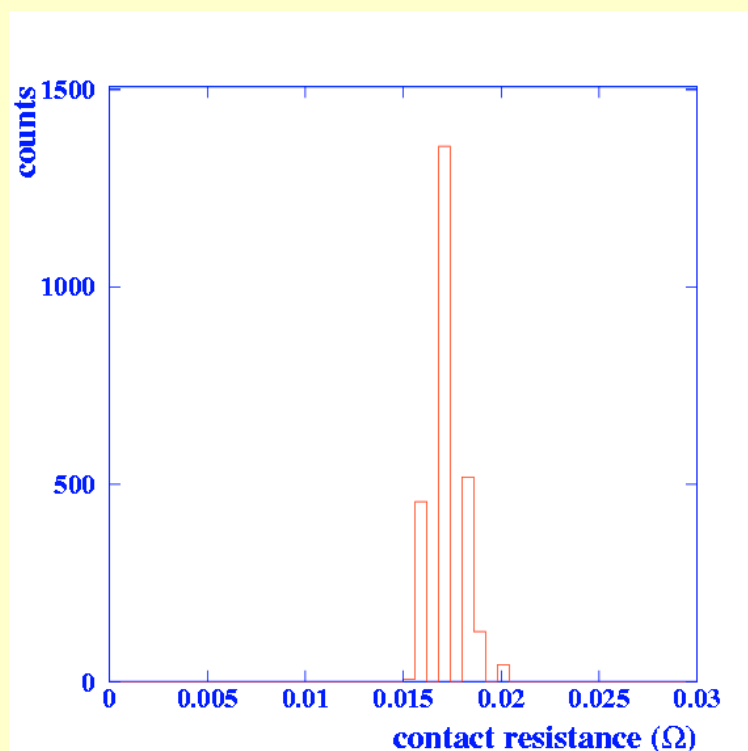


**5 pair found with
? R < 40 mO**

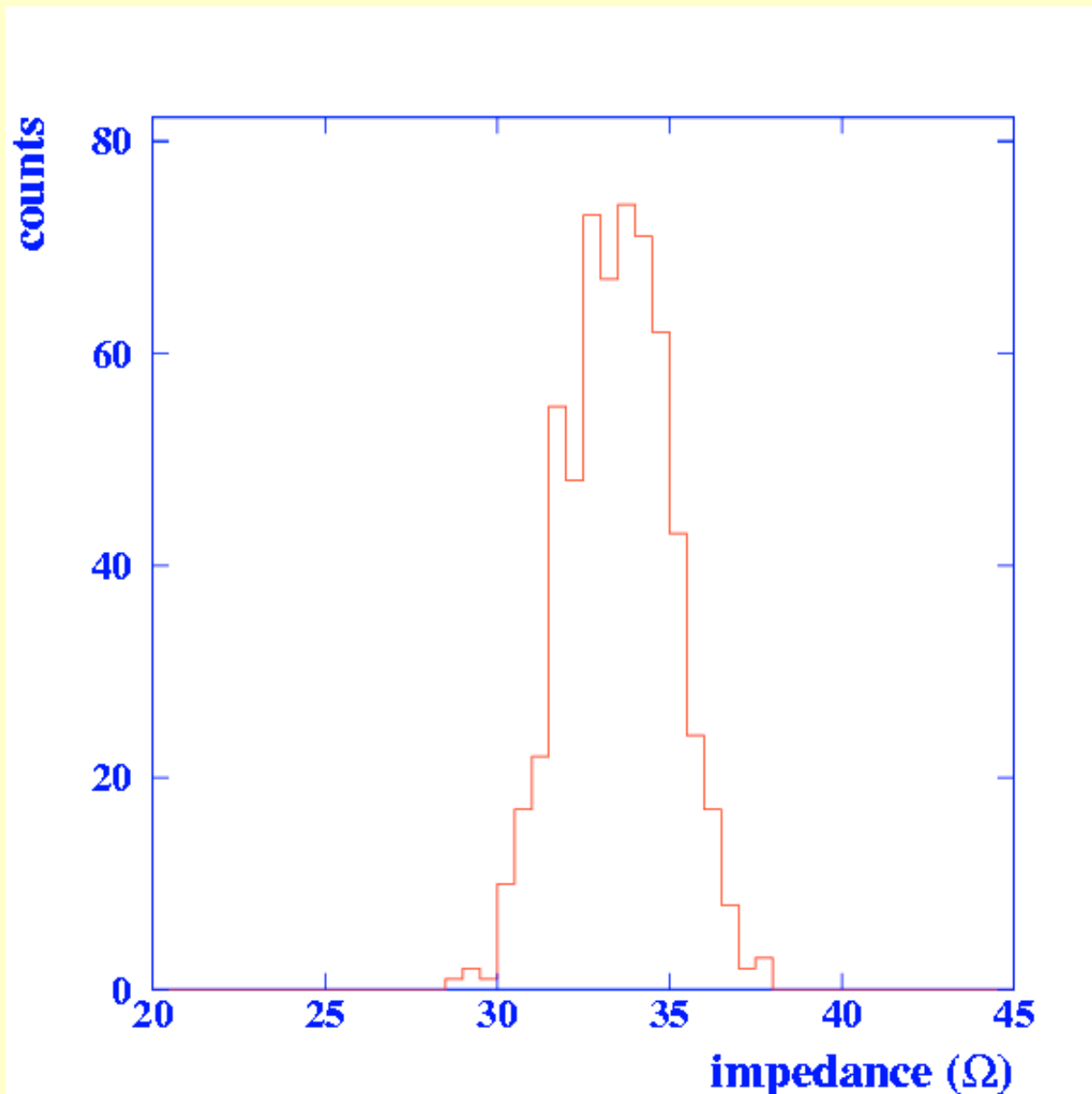
Contact Resistance



~ 17 m Ω

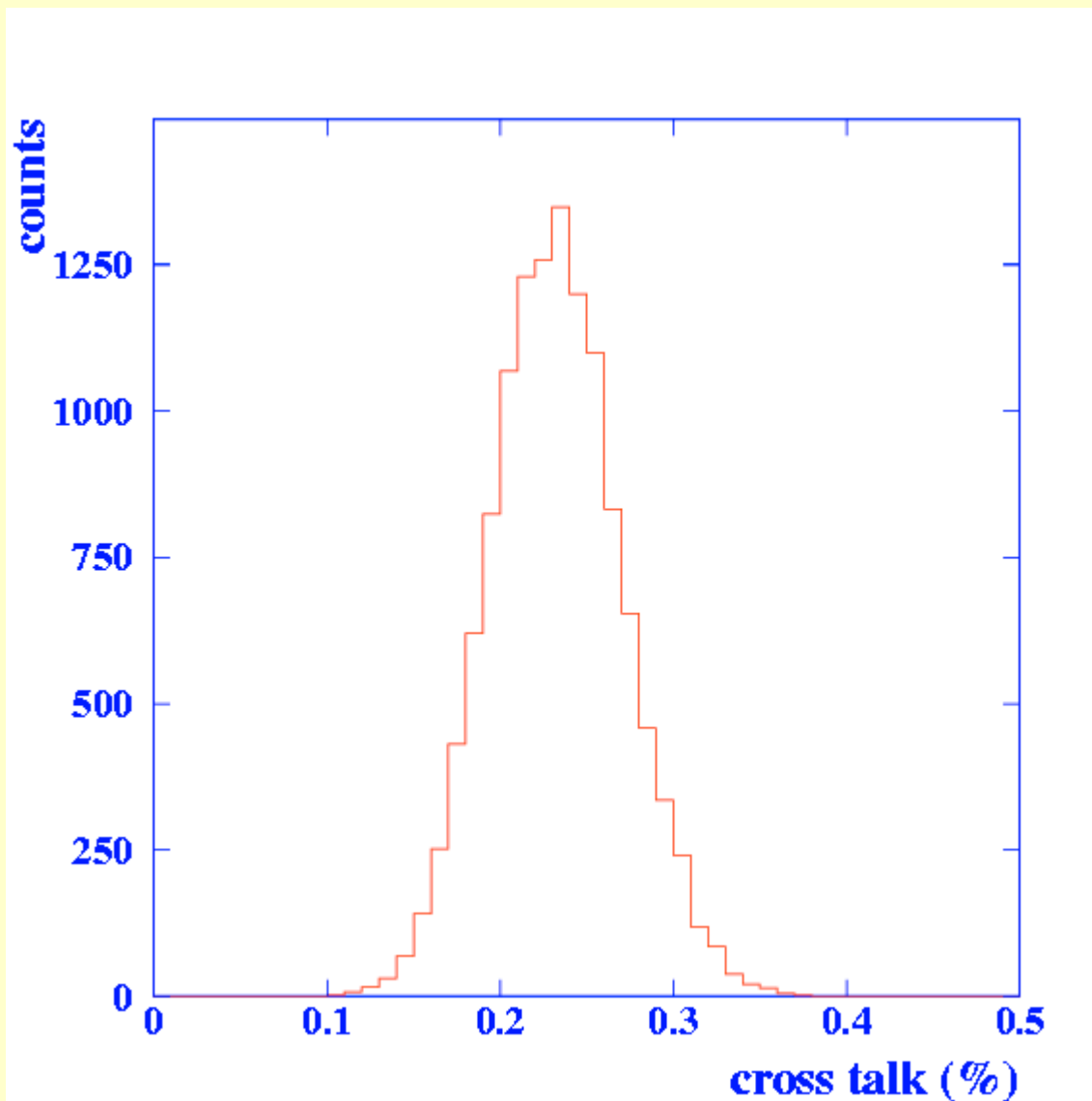


Impedance



$$Z = 33 \pm 40$$

Cross Talk



**no signs found of broken
ground traces**

LARG week
07/00

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Components for Feedthrough Production

- *Vacuum Cables*
 - 100 in stock (99 passed all tests).
 - Second batch expected this week.
- *Pigtail Cables*
 - 207 cables in stock now, all ok.
 - 104 more Pigtail Cables in transit.
- *Pincarriers*
 - 12 7-row and 12 8-row in stock and all ok.
 - Delivery schedule: 8 of each type to be delivered every other week beginning in July.



- *Ambient and Cold Flanges, Bolt Rings, Cuff Rings, Seal Rings, Funnel Bases, Lower Funnel Tubes*
 - All in stock.

- *Funnel Assemblies*

- 4 in stock.
- No delivery problems anticipated.

- ***Bellows Assemblies***
 - 6 in stock.
 - Second batch expected this week.
- ***Ambient Flange glands
(VCR T-pieces)***
 - 4 in stock.
 - Others at CERN awaiting repair.
- ***Rohacell***
 - All in stock and fully machined.
- ***Ambient Flange Heater***
 - Waiting for approval.

Production Plans

- **We plan to build one feedthrough in each of July and August.**
- **Starting in September, we plan to increase the production rate to two feedthroughs per month.**

Anticipated tests to be done at CERN on arrival

- ***Leak Checks on arrival at CERN***
 - We assume CERN will supply the leak checker.
 - A dry roughing pump (scroll or diaphragm) will also be required.
- ***Electrical Tests on arrival at CERN***
 - Cross Talk and Resistance.
 - Apparatus under construction.
- ***Electrical Tests after welding onto cryostat***
 - Cross Talk and Resistance.
 - Same apparatus as above.