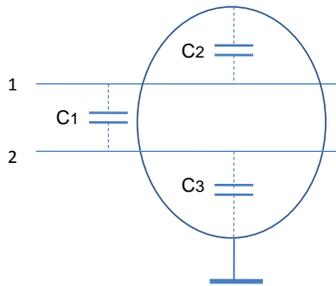


## Capacitance measurement for STAR TPC Gating Grid System.

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Question was open about a new Gating Grid (GG)Driver. We need to know load and I did some measurements. Each sector- Inner or Outer has twinex BNC connector to connect a cable. From sector to TPC outer radius there is a pigtail cable, connected to long cable coming to second floor, rack row A.

GG modules are installed in special VME crate Rack 2A6. Module has a small pigtail with twinex connector and cable, coming from TPC connected into this socket. Because each element of this chain- sector, pigtail, long cable have 3 conductors- two central to carry GG pulse and ground, I measured all these capacitances C1, C2, C3 by Tektronix DMM 916 probe.



Results(nF):	C1	C2	C3
Outer sector	3.134	1.355	1.361
Pigtail	.077	.136	.136
Inner sector+pigtail	1.767	.949	.924
Long cable+ outer sector	5.171	5.621	5.521
Long cable+inner sector	3.901	5.051	5.111
Long cable	2.037	4.102	4.187