

**Mole Summary from DCA310 - DCA312
Collar-Keyed Assemblies**

**TS-SSC 91-156
S. Delchamps
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The table below shows the harmonics (averaged over ± 7 meters from magnet center) and the transfer function in Gauss per Amp at 10 Amps for the collar-keyed assemblies of magnets DCA310, DCA311, and DCA312. These measurements were made with the BNL B2 mole. More detailed reports of these measurements are available in references 1, 2, and 3.

	310	311	312
b 2	-2.33	-2.76	-3.12
b 4	0.28	0.45	0.40
b 6	-0.05	-0.06	-0.05
b 8	0.06	0.06	0.06
b 10	0.02	0.02	0.02
b 1	-0.15	-0.06	0.04
b 3	-0.02	-0.00	0.03
b 5	-0.01	0.00	0.01
b 7	0.00	0.00	0.00
b 9	0.00	0.00	0.00
b 11	0.00	0.00	0.00
a 1	0.86	0.64	0.54
a 2	0.39	0.27	0.17
a 3	-0.39	-0.07	0.10
a 4	0.05	0.04	0.06
a 5	0.03	-0.01	-0.01
a 6	0.00	0.00	0.00
a 7	0.00	0.00	0.00
a 8	0.01	0.01	0.01
a 9	0.00	0.00	0.00
a 10	0.00	0.00	0.00
a 11	0.00	0.00	0.00
T.F.	7.92	7.91	7.91

References

1. S. Delchamps, "Mole Measurement of DCA310 Collar-Keyed Assembly", TS-SSC 91-132, June 28, 1991.
2. S. Delchamps, "Mole Measurement of DCA311 Collar-Keyed Assembly, TS-SSC 91-150, August 7, 1991.
3. S. Delchamps, "Mole Measurement of DCA312 Collar-Keyed Assembly, TS-SSC 91-151, August 8, 1991.

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