



# Jefferson Lab Alignment Group

## Data Transmittal

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**Checked:**

**# :** L1081

### DETAILS:

Below is a list of quads in the south linac that were moved in April 2000 according to optics data from Valeri Lebedev and Chao. Movements were only made in X. A positive move is a move to the beam left, a positive location is to the beam left. The new "ideal" location is that achieved after the requested move. This is defined either from the as found survey measured after the move (as for QB2L16 and 17), or the more recent data measured with the laser tracker in January 2006.

| <b>Magnet</b> | <b>Requested Move</b> | <b>New "ideal" Location</b> |
|---------------|-----------------------|-----------------------------|
| QB2L09        | -1.0                  | -0.6                        |
| QB2L10        | -1.2                  | -0.8                        |
| QB2L11        | -1.0                  | -0.6                        |
| QB2L12        | -1.2                  | -1.0                        |
| QB2L13        | -1.0                  | -0.1                        |
| QB2L16        | 0.7                   | 1.1                         |
| QB2L17        | 1.0                   | 1.3                         |
| QB2L18        | 1.0                   | 1.2                         |
| QB2L19        | 1.3                   | 1.4                         |

Following the SL16 cryomodule removal in February 2005, QB2L16 and 17 were positioned at their original ideal values as follows:

| <b>Magnet</b> | <b>As set Location</b> | <b>Diff from "Optics" ideal</b> |
|---------------|------------------------|---------------------------------|
| QB2L16        | 0.3                    | -0.8                            |
| QB2L17        | -0.1                   | -1.4                            |