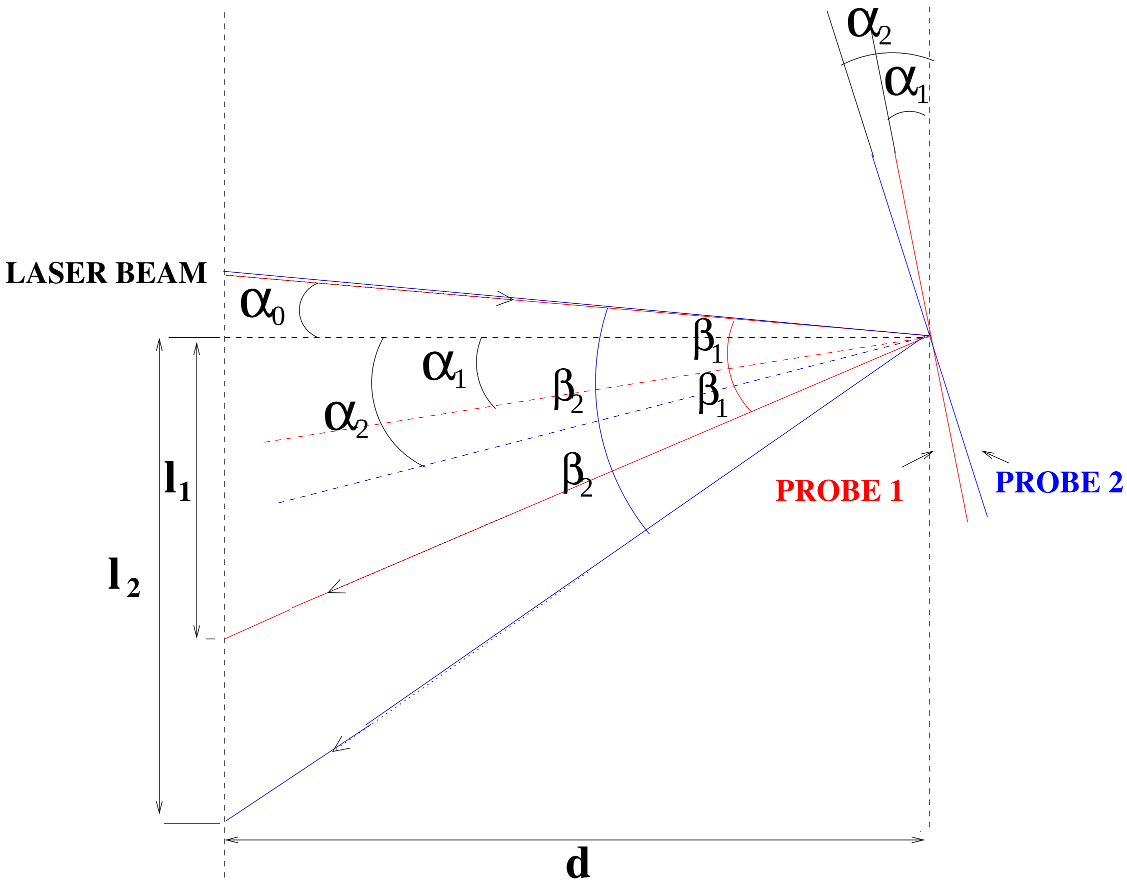
Hor Field Studies



$$
\begin{aligned}
l_1 = d \cdot tg(\alpha_1 + \beta_1) &\approx d \cdot (\alpha_1 + \beta_1) = \\
&= d \cdot (2\alpha_1 + \alpha_0) \\
l_2 = d \cdot tg(\alpha_2 + \beta_2) &= d \cdot (2\alpha_2 + \alpha_0)
\end{aligned}
$$

$$
\begin{aligned}
l_2 - l_1 &= 2d\alpha_2 + d\alpha_0 - 2d\alpha_1 - d\alpha_0 \\
\Delta l &= 2d \cdot (\alpha_2 - \alpha_1) \\
&\Longrightarrow (\alpha 2 - \alpha 1) = \frac{\Delta l}{2d}
\end{aligned}
$$

Then:

$$
\begin{aligned}
B_{x1} &= = B_y \alpha_1 + B_x \\
B_{x2} &= = -B_y \alpha_2 + B_x \\
&\Longrightarrow B_x = \frac{(B_{x1} + B_{x2}) + B_y(\alpha_2 - \alpha_1)}{2}
\end{aligned}
$$

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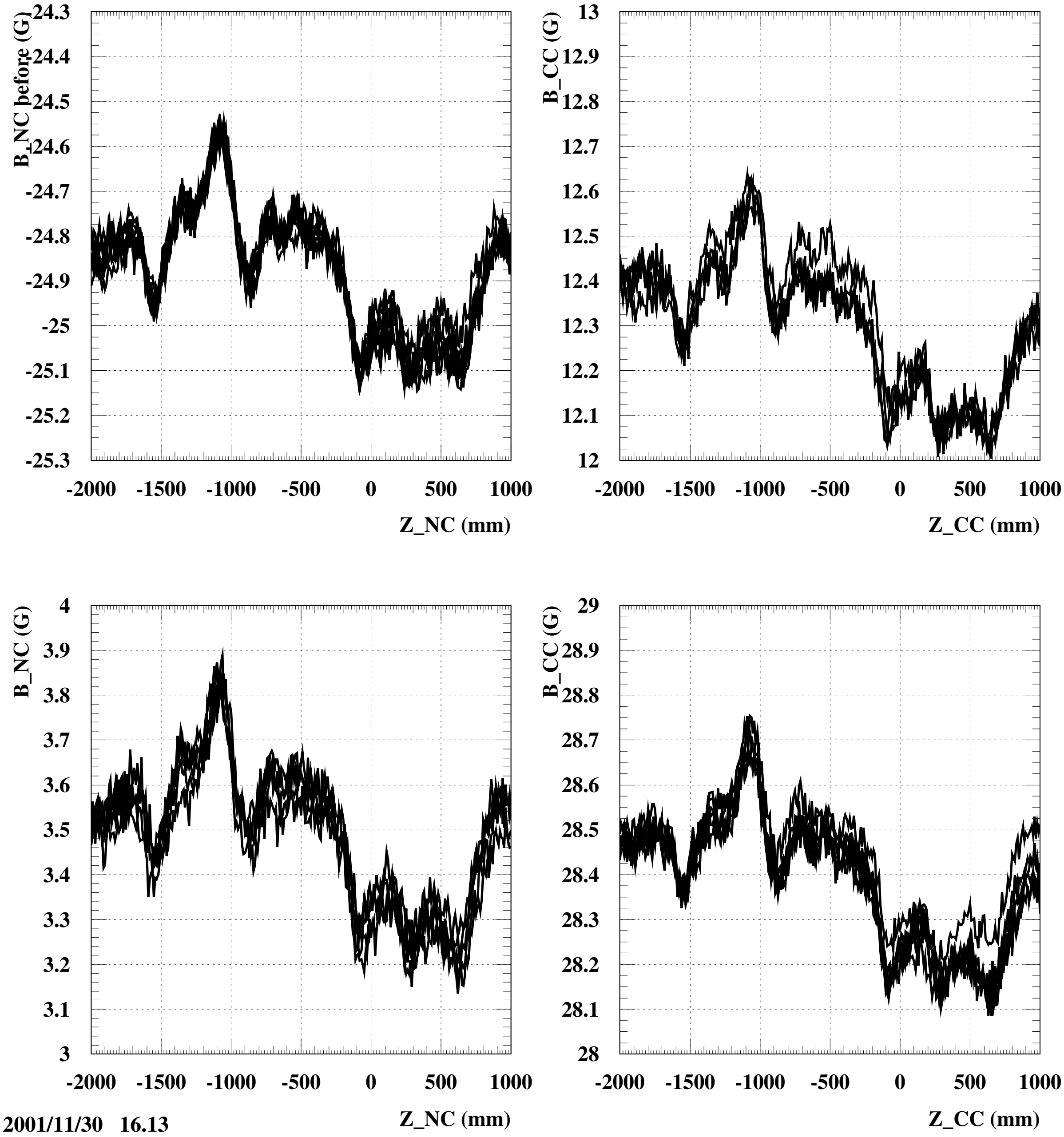

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