Cubic (432, $\bar{4}3m$, $m\bar{3}m$), 011

$H_{123} \to H_1$

$H_{125} \to H_2$

$\Delta H = H_{123} - 3H_{125}$

$H_{123} = \Delta H + 3H_{125}$

$H_{125} = \frac{H_{123} - \Delta H}{3}$

$$\phi_{M_L, M_L^3} = \frac{1}{2} B_{slip}\Big[(1-\cos 2\alpha)\Big[\mp 2\Delta H \pm H_1 \mp 3H_2\Big] + \frac{1}{4}\left(-2\cos 2\alpha + \frac{\cos 4\alpha}{2} + \frac{3}{2}\right)\Big[\pm 6\Delta H \mp 3H_1 \pm 9H_2\Big] \pm H_1 \pm 3H_2 \pm 2K_1\Big]$$

$$= \frac{1}{2} B_{slip}\Big[\mp \Delta H(1-\cos 2\alpha) \pm \frac{1}{4} 3\Delta H\left(-2\cos 2\alpha + \frac{\cos 4\alpha}{2} + \frac{3}{2}\right) \pm H_1 \pm 3H_2 \pm 2K_1\Big]$$

$$= \frac{1}{2} B_{slip}\Big[\mp \frac{1}{8}\Delta H(4\cos 2\alpha - 3\cos 4\alpha - 1) \pm H_1 \pm 3H_2 \pm 2K_1\Big]$$

$$\phi_{M_T^3} = \frac{1}{16} B_{slip}\Big[(\sin 2\alpha + \sin 4\alpha)(\mp 6\Delta H \pm 3H_1 \mp 9H_2) + \sin 2\alpha(\pm 2\Delta H \mp H_1 \pm 3H_2)\Big]$$

$$= \frac{1}{16} B_{slip}\Big[\mp 3\Delta H(\sin 2\alpha + \sin 4\alpha) \pm \Delta H \sin 2\alpha\Big]$$

$$= \frac{1}{16} B_{slip}\Big[\mp \Delta H(2\sin 2\alpha + 3\sin 4\alpha)\Big]$$