EXPERIMENTAL PARAMETERS

TWO DIFFERENT REGIME

	Hamburg Group	ETH Group
Cold atoms species	^{87}Rb	^{40}K
Laser wavelength λ_L	830nm	1064nm
Recoil energy $E_r=\frac{\hbar^2 k_L^2}{2M}=\frac{h^2}{2M\lambda_L^2}$	h×3.33kHz	h×4.41kHz
Lattice depth V_0	V_0=(0~15)E_r=h×(0~50)kHz	V_{bw}=h×3.9(1)kHz
Band width and gap	a typical depth V_0=9.5E_r=h×31.6kHz	V_{gap}=h×5.4(2)kHz
Shaking frequency Ω	(2~6)kHz=(0.6~1.8)E_r/h	4.0kHz
$h\Omega$ vs. V_{band}	$n\times h\Omega=\varepsilon_1-\varepsilon_0$ $n=1,2,\ldots,10$	$h\Omega$~V_{bw}