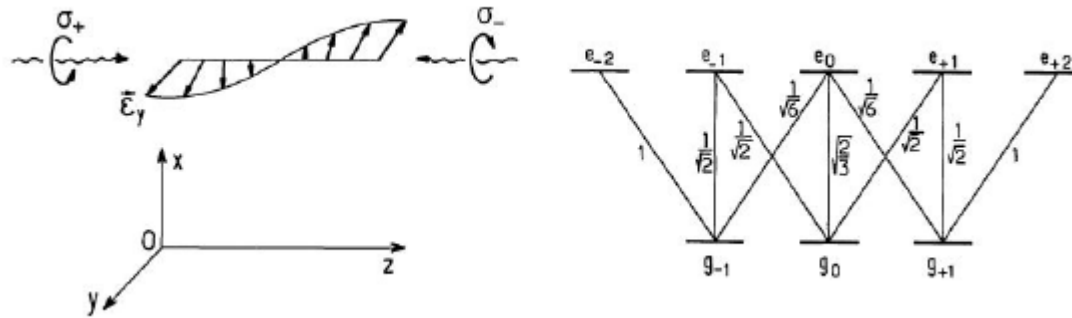


Polarization gradient  
of the standing wave

Transition probabilities in the J=1 to J=2 system



From: J. Dalibard and C. Cohen-Tannoudji: J. Opt. Soc. Am. B (1989)

# Typical path towards quantum degenerate gases

	T(K)	$\lambda_{dB}$	n	$\lambda_{dB}^3 n$
Ofen	600K	0.02 nm	$10^8/\text{cm}^3$	$10^{-19}$
Zeeman slower	30mK	2nm	$10^8/\text{cm}^3$	$10^{-12}$
MOT	1mK	10nm	$10^9/\text{cm}^3$	$10^{-9}$
Melasse	10- 100 $\mu$ K	30-100nm	$10^9/\text{cm}^3$	$10^{-5}-10^{-3}$
Magnetfalle und Evaporation	<100 nK	>1 $\mu$ m	$10^{12}$ - $10^{14}/\text{cm}^3$	>1

# Ioffe-Pritchard magnetic trap

