


B2
Symmetry and Relativity
Lecture 9



Germany 1930's

- Einstein to Born: “I must confess that the degree of their brutality and cowardice came as something of a surprise”
- Many professors lost their positions due to the “Law for the Restoration of the Professional Civil Service”
- Lindemann brought many out via Oxford



$$D = \frac{1}{c} \frac{1}{l} \frac{dl}{dt} = \frac{1}{c} \frac{1}{P} \frac{dP}{dt}$$
$$D^2 = \frac{1}{P^2} \frac{P_0 - P}{P} \sim \frac{1}{P^2} \quad (1a)$$
$$D^2 = \frac{kg}{3} \frac{P_0 - P}{P} \sim kg \quad (2a)$$
$$D^2 \sim 10^{-53}$$
$$e \sim 10^{-26}$$
$$P \sim 10^8 \text{ g. y}$$
$$t \sim 10^{10} (10^{11}) \text{ y}$$

