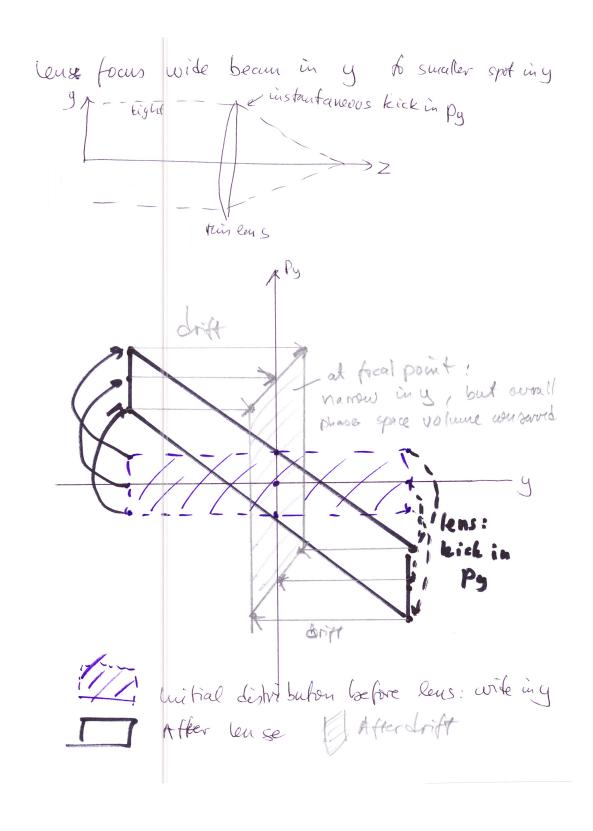


Here is a better picture for the lens case:



Liouville's Theorem:

1) N particles all described
$$i=1...N$$

by the same $H(q^2, p^2, t)$ for each;

2) distributed over a phase space volume V

dense

3) $V(t) = coust$.

 $\frac{2}{2} + \frac{2}{2} + \frac{$