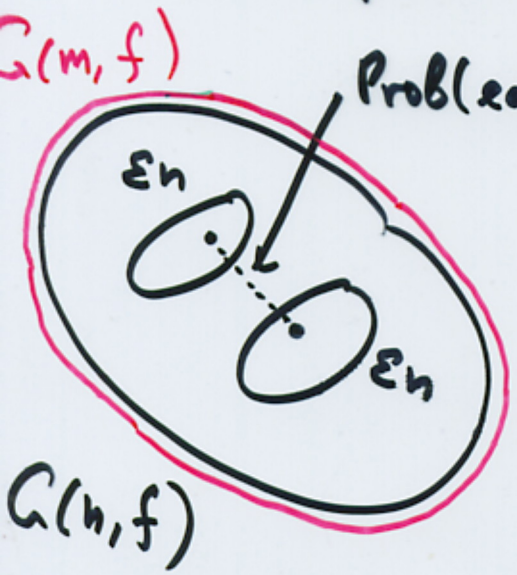
Stable Limits

$f \in \mathcal{L}$ is <u>stable</u> if $\forall (f_n) \xrightarrow{\delta_\square} f$ is Cauchy wrt δ_1.

<u>Th</u> $f \in \mathcal{W}$ is stable iff a.e. $x \in I^2$ $f(x) = 0$ or 1.

$\Rightarrow$ Sse not. Random graph $G(n,f)$: random $x_1, \dots, x_n \in I$, $\text{Prob}(ij \in E) = f(x_i, x_j)$.

With prob 1 $G(n,f) \xrightarrow{\delta_\square} f$.



$$E(d_1(G(n,f), G(m,f)) \geq \varepsilon^3$$

$$\text{Prob}(d_1 < \varepsilon^3/2) = o((n!)^{-1})$$

A.s. $d_1 \geq \varepsilon^3/2$ ##