So get

$\alpha \sum_{i \in I_0}$

$\boxed{h(\alpha) \approx m_0}$

$\boxed{\mathbb{E}\left[\frac{1}{n(\alpha)}\right] \approx m_0}$

Also $h_n(\alpha) \longrightarrow m_0$ as $n \nearrow \infty$

So the BH procedure with $h_n(\alpha) = m$ works asymptotically.

$$(1-o(v))\,a + (1-o(v))\,b$$

$$= a - a\,o(v) + b - b\,o(v)$$

$$\frac{1}{1-x} = 1 + x + x^2 \ldots$$

$$\leq C \times (v+w)^{-1}$$

$$\frac{1}{\cancel{(1+o(v))}} \cdot \frac{}{1 + o(v)} = \cancel{(1-o(v)} = 1 + o(v) + \ldots$$