Definition 7.d.6. [230]*Having fixed $(a_n)_{n\in\mathbb{N}}$ a real sequence, $(a_{n_k})_{k\in\mathbb{N}}$ is a* subsequence *when n_k is a strictly increasing sequence of natural numbers.*
Similarly having fixed $f : J \to \mathbb{R}$, let $H \subseteq J$ be a cofinal *subset (as defined in [06P]): We know from [06X] that H is* filtering. *Then the restriction $h = f_{|_H}$ is a net $h : H \to \mathbb{R}$, and is called* "a **subnet** of f".
More in general, suppose that $(H, \le_H)$ is cofinal in $(J, \le)$ by means of a map $i : H \to J$; this means (adapting [(3.121)]) that

$$(\forall h_1, h_2 \in H, h_1 \le_H h_2 \Rightarrow i(h_1) \le i(h_2)) \wedge (\forall j \in J\, \exists h \in H,\ i(h) \ge j) \tag{7.d.7}$$

*then $h = f \circ i$ is a **subnet**.*