$$\operatorname{proj\,lim}_{i \in I} A_i = \varprojlim_{i \in I} A_i$$

Inline:  $\operatorname{proj\,lim}_{i \in I} A_i = \varprojlim_{i \in I} A_i$ 

$$\inf_{i \in I} \lim_{A_i} A_i = \lim_{i \in I} A_i$$

Inline:  $\inf \lim_{i \in I} A_i = \lim_{i \in I} A_i$ 

$$\limsup_{n \to \infty} a_n = \overline{\lim}_{n \to \infty} a_n$$

Inline:  $\limsup_{n\to\infty} a_n = \overline{\lim}_{n\to\infty} a_n$ 

$$\liminf_{n \to \infty} a_n = \underline{\lim}_{n \to \infty} a_n$$

Inline:  $\liminf_{n\to\infty} a_n = \underline{\lim}_{n\to\infty} a_n$