



Math for the people, by the people.

diagonal intersection

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| Defines | diagonal intersection |

If $\langle S_i \rangle_{i < \alpha}$ is a sequence then the *diagonal intersection*, $\Delta_{i < \alpha} S_i$ is defined to be $\{\beta < \alpha \mid \beta \in \bigcap_{\gamma < \beta} S_\gamma\}$.

That is, β is in $\Delta_{i < \alpha} S_i$ if it is contained in the first β members of the sequence.