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## On expressible sets for products

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For a sequence of real numbers  $\{a_n\}_{n=1}^{\infty}$  we call the set

$$E_{\Pi}\{a_n\}_{n=1}^{\infty} = \left\{ \prod_{n=1}^{\infty} \left( 1 + \frac{1}{a_n c_n} \right) : c_n \in \mathbb{Z}^+ \right\}$$

its  $\Pi$ -expressible set. We calculate  $E_{\Pi}\{a_n\}_{n=1}^{\infty}$  under various hypothesis on  $\{a_n\}_{n=1}^{\infty}$ . Where this is not possible we give some partial information on its contents. This investigation can be considered a continuation of related investigations on the  $\Sigma$ -expressible sets of sums.