1 The bold equivalence $\sum_{j<B} \prod_\lambda : \boldsymbol{\sum_{x_j} \prod_\lambda}$

$$B_\infty + \pi B_1 \sim \mathbf{B_\infty} + \pi \mathbf{B_1} \sim B_\infty + \pi B_1 \tag{1}$$

$$B_\infty + \pi B_1 \in \left\{ (\mathbf{B}, \mathbf{x}) : \frac{\partial \mathbf{B}}{\partial \mathbf{x}} \gtreqless 1 \right\} \tag{2}$$