

FACULTY OF TRANSPORTATION SCIENCES, CZECH TECHNICAL UNIVERSITY

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**HISTORY OF MATHEMATICS, volume 64**

**JARNÍK'S NOTES OF THE LECTURE COURSE**

**ALLGEMEINE IDEALTHEORIE**

by **B. L. van der WAERDEN (Göttingen 1927/1928)**

Jindřich Bečvář, Martina Bečvářová

$$\begin{aligned} & \sum a_i x^i \left( \sum b_k x^k + \sum c_k x^k \right) \\ &= \sum a_i x^i \sum (b_k + c_k) x^k \\ &= \sum_l \left( \sum_{i+k=l} a_i (b_k + c_k) \right) x^l \\ &= \sum_l \left( \sum_{i+k=l} a_i b_k \right) x^l + \sum_l \left( \sum_{i+k=l} a_i c_k \right) x^l \\ &= \sum a_i x^i \sum b_k x^k + \sum a_i x^i \sum c_k x^k \end{aligned}$$