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**From exploration to proof production.**

Hanna, Gila (ed.) et al., Proof and proving in mathematics education. The 19th ICMI study. Berlin: Springer (ISBN 978-94-007-2128-9/hbk; 978-94-007-2129-6/ebook). New ICMI Study Series 15, 279-303 (2012).

Summary: This article focuses on four topics: how exploration, especially hands-on exploration with concrete materials, is integrated into the teaching of proof in Taiwan; different ways of interpreting exploration; exploration's intrinsic features and value in the context of proving; and a proposed conceptual model, the 'EP-spectrum', for the relationships amongst exploration, problem-solving, proving and proof in the classroom. Furthermore, the chapter raises some ideas requiring future research, such as the primary factors contributing to the progression from exploration to proof production and the integration of exploration into the context of proving.

*Classification:* E50 D50 D40 C30

*Keywords:* teaching of proof; Taiwan; hands-on exploration; interpreting exploration; intrinsic features of exploration; EP-spectrum; problem-solving

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