Record Nr. UNISA996418252403316 Autore Roth Wolff-Michael Titolo Adventures of Mind and Mathematics [[electronic resource] /] / by Wolff-Michael Roth Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2020 **ISBN** 3-030-51809-4 Edizione [1st ed. 2020.] Descrizione fisica 1 online resource (265 pages) Collana Mathematics in Mind, , 2522-5405 510.1 Disciplina Soggetti Mathematics Mathematics—Philosophy Mathematics, general Philosophy of Mathematics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto Part A. Foundations -- 1. Toward an Organismic Theory of Mind -- 2. Primacy of Events -- Part B. Extensions -- 3. Mathematical Thinking as Event -- 4. On Signifier-Things and Signing-as-Event -- 5. When Does Mathematical Form Make Sense? -- 6. Genesis of Mathematical Reasoning -- 7. Affect in the Mathematical Mind -- Part C. Integrations -- 8. The Thinking Body of Mathematics -- 9. Experience, Mathematics. and Mind -- Appendix -- Index. . This monograph uses the concept and category of "event" in the study Sommario/riassunto of mathematics as it emerges from an interaction between levels of cognition, from the bodily experiences to symbolism. It is subdivided into three parts. The first moves from a general characterization of the classical approach to mathematical cognition and mind toward laying the foundations for a view on the mathematical mind that differs from going approaches in placing primacy on events. The second articulates some common phenomena-mathematical thought, mathematical sign, mathematical form, mathematical reason and its development, and affect in mathematics—in new ways that are based on the previously developed ontology of events. The final part has more encompassing

> phenomena as its content, most prominently the thinking body of mathematics, the experience in and of mathematics, and the

relationship between experience and mind. The volume is well-suited for anyone with a broad interest in educational theory and/or social development, or with a broad background in psychology.