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Nota di contenuto	Part I Refereed Articles: 1 Higher Structures in Geometry and Physics 2 Winter of Disconnectedness 3 Approximation and Optimisation 4 Refining C* Algebraic Invariants for Dynamics using KK-Theory 5 Interactions between Topological Recursion, Modularity, Quantum Invariants and Low-dimensional Topology Part II Other Contributed Articles: 6 Higher Structures in Geometry and Physics 7 Winter of Disconnectedness 8 Interactions between Topological Recursion, Modularity, Quantum Invariants and Low-dimensional Topology.
Sommario/riassunto	MATRIX is Australia's international, residential mathematical research institute. It facilitates new collaborations and mathematical advances through intensive residential research programs, each lasting 1-4 weeks. This book is a scientific record of the five programs held at MATRIX in its first year, 2016: - Higher Structures in Geometry and

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Physics - Winter of Disconnectedness - Approximation and Optimisation - Refining C*-Algebraic Invariants for Dynamics using KK-theory - Interactions between Topological Recursion, Modularity, Quantum Invariants and Low- dimensional Topology The MATRIX Scientific Committee selected these programs based on their scientific excellence and the participation rate of high-profile international participants. Each program included ample unstructured time to encourage collaborative research; some of the longer programs also included an embedded conference or lecture series. The articles are grouped into peer-reviewed contributions and other contributions. The peer-reviewed articles present original results or reviews on selected topics related to the MATRIX program; the remaining contributions are predominantly lecture notes based on talks or activities at MATRIX.