

Recent developments in commutative algebra Special Session B20

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Commutative algebra is the field of mathematics that studies commutative rings and their ideals and modules. The subject has deep connections with other fields including algebraic geometry, combinatorics, representation theory, and algebraic topology. In the past few years, there have been several important developments in the field, leading to the solution to many long-standing conjectures and the introduction of new methods.

With this special session, we intend to integrate senior and young active researchers in the field to present their most recent advances and to facilitate the creation of new collaborations. The focus will be on recent progress in the topics of free resolutions, local cohomology, singularities, positive characteristic methods, and interactions of commutative algebra with combinatorics.

For more information visit <https://sites.google.com/view/ca2024palermo/home>.