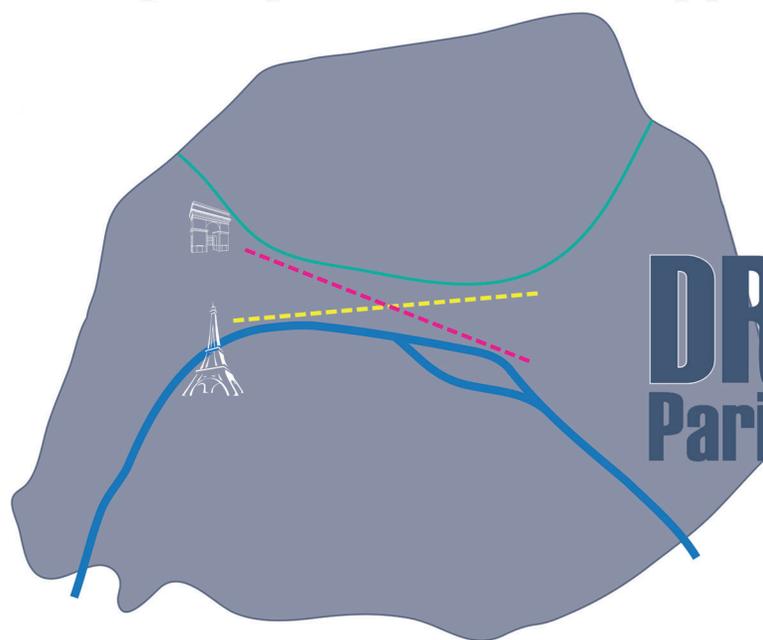


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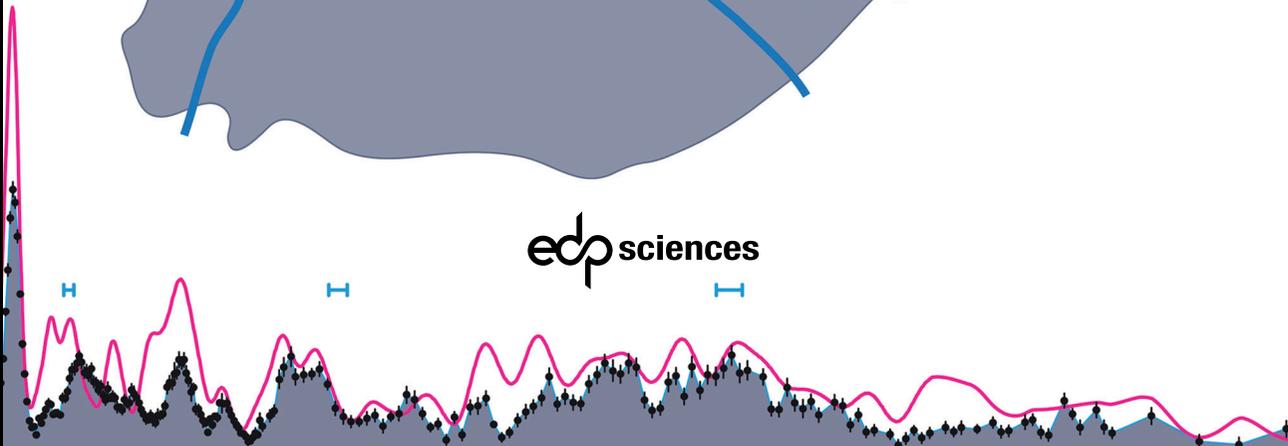
9th International Conference on Dissociative Recombination: Theory, Experiment and Applications



7-12 July

DR2013
Paris

edp sciences



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Group pictures



Paradigm for the reactive collisions, the dissociative recombination of electrons with molecular cations is a major process in the ionized cold and diluted media, often far from equilibrium: interstellar molecular clouds, planetary atmospheres, plasmas formed at the hypersonic entry of spacecrafts, plasmas close to the wall of the fusion devices, and combustion gases. Several other processes compete with DR, such as rovibrational excitation, dissociative excitation and ion-pair production. The research on these processes overlaps strongly with those from other fields of molecular physics, like photofragmentation via superexcited states, resonant electronic attachment and negative ions, and electron-induced processes in large molecules and clusters. It is also of great interest for feeding database for astrophysics and plasma physics.

The proceedings of the 9th International Conference on Dissociative Recombination (DR2013) include a collection of articles which gather the essentials of the series of "DR" conferences, with both experimental and theoretical contributions, either at the heart of the physics of dissociative recombination and of related processes, or opened toward interdisciplinary investigations.

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