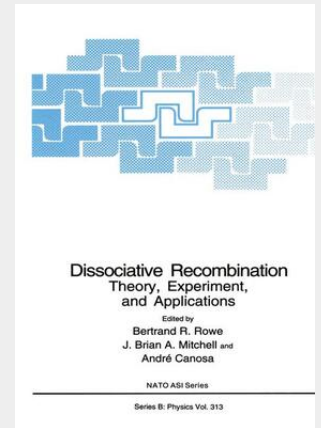


# Dissociative Recombination

Theory, Experiment, and Applications

dmeeting. TheUniversityofRennesandtheBalzerscompanyarealso acknowledgedfortheiradditional supportManythankstothewholestaffoftheabbeyforits kindnessandeffortsinprovidinguswithapropitiousenvironmentforsuchaworkshop. We arealsogratefultoL. Caubetforhervaluableadministrativeassistanceduringthepreparation ofthemeeting. Finallyaspecialmentionmustbegiventoeveryoneofthesessionchairpersonsfortheir skillinorchestratingthediscussions. Lookingforwardtoattendingthethirdmeeting. TheEditors Bertrand R. Rowe J. Bria/I A. Mitchell Andre Callosa DepartementdePhysique DepartmentofPhysics DepartementdePhysique AtomiqueetMoleculaire TheUniversityofWesternOntario AtomiqueetMoleculaire UniversitedeRennes London,Canada,N6A3K7 UniversitedeRennesI CampusdeBeaulieu CampusdeBeaulieu 35042RennesCedex, 35042RennesCedex, France France v CONTENTS ORALCONTRIBUTIONS PolyatomicIonDissociativeRecombination. 1 D. R. Bates RecentDevelopmentsandPerspectivesintheTreatmentofDissociative RecombinationandRelatedProcesses. 11 A. Giusti-Suzor, I. F Schneider, and O. Dulieu CharacteristicsofSuperexcitedStatesofMoleculesandMQDTStudiesofNO+ DissociativeRecombination. 25 H. Sun, K. Nakashima, and H. Nakamura CalculationsforAr +Xe\*andArXe+ +e 35 A. P. Hickman, DL Huestis, and R. P. Saxon Electron-IonContinuum- ContinuumMixinginDissociativeRecombination 47 s. L. Guberman ATheoreticalStudyoftheHCO+andHCS+ElectronicDissociativeRecombinations. 59 D. Talbi, and Y Ellinger DissociativeRecombinationofCH<sub>2</sub>:SomeBasicInformationfromElectronic 2 StructureCalculations. 67 WP. Kraemer TheoreticalProblemsintheDissociativeRecombinationofH<sup>-</sup> +e. 75 H. Takagi RecentMergedBeamsInvestigationsofHydrogenMolecularIonRecombination. 87 J B. A. Mitchell, F B. Yousif, P. Van der Donk, and T. J Morgan vii FlowingAfterglowStudiesofElectron-IonRecombinationusingLangmuirProbesand OpticalSpectroscopy. 99 NG. Adams RecentFlowingAfterglowMeasurements. 113 B. R. Rowe InfraredSpectroscopicStudiesoftheDissociativeRecombinationProcessesofH. 127 3 T. Amano RecombinationofClusterIons. 135 R. Johnsen PredissociationofExcitedStatesofH. 145 3 H. Helm AStudyofHe e,<sub>3l</sub>,;)BoundandContinuumStates. 155 2 CJ Gillan, B. M McLaughlin. and P. G. Burke ElectronCollisionInducedExcitationsandDissociationofHeH<sup>+</sup>usingthe R-MatrixMethod. 163 BK Sarpal, J Tennyson, and L. A. Morgan AssociativelionisationofHydrogen:ExperimentswithFastMergedBeams. 173 F Brouillard, andX Urbain TheoryoftheAssociativelionisationReactionbetweenTwoLaser-Excited. 187 SodiumAtoms O. Dulieu, A. Giusti-Suzor, andF Masnou-Seeuws ResonantTheoryofDissociativeAttachment. 195 J. J. Fabrikant MicroscopicandMacroscopicTheoriesofTermolecularRecombinationbetween AtomicIons. 205 MR. Flannery DissociativeRecombinationinPlanetaryIonsospheres. 219 JL. Fox ChemistryofSupernova1987a. 243 A. Dalgarno DissociativeRecombinationinInterstellarClouds.

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