Abstract Submitted
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N2(B,v'=0-12) populations in Ar-N2 and N2 flowing afterglows of microwave and Corona discharges ANDRE RICARD, FREDDY GABORIAU, Université Toulouse, ANNE-MARIE POINTU, University Paris Sud-Orsay, LAPLACE TEAM, PGP TEAM — Production of N2(B,v') states is analysed from the N2 1st pos. System intensity in Ar-N2 and N2 afterglows of microwave and Corona discharges. A strong emission at 1040 nm from the N2(B,0- A,0) band is obtained in Corona N2 afterglow. Such emission is largely stronger than in microwave afterglows at low N2 pressure and at atmospheric Ar-xN2 gas pressure with x=1.5-23%.

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