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Validation of the van der Waals broadening method for the determination of gas temperature in microwave discharges sustained in Argon-Neon mixtures

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Highlights

- Van der Waals broadening used to calculate gas temperature in Ar-Ne plasmas
- Calculations consider the influence of both Ar and Ne perturbing atoms
- Results show the method is valid for neon concentrations ranging from 0 to 90%

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