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**The Plancherel formula for solvable  $p$ -adic groups**

**Abstract.** In this talk, we prove a Plancherel formula for almost connected solvable  $p$ -adic groups ( $p \neq 2$ ). To do this, we give a necessary and sufficient condition for a unitary irreducible representation to be admissible in terms of Kirillov-Duflo orbit method. Then we establish a character formula around each semi-simple element.