

**Speaker:** Marie-France Vignéras

**Title:** Asymptotics for modular representations of reductive  $p$ -adic groups

**Abstract:** Let  $p$  be a prime number,  $R$  an algebraically closed field of characteristic different from  $p$ ,  $F$  a finite extension of  $\mathbb{Q}_p$  or  $F_p((t))$ . The  $R$ -representations of the absolute Weil group of  $F$  are related (the Langlands bridge) to the  $R$ -representations of reductive  $p$ -adic groups, for instance  $\mathrm{SL}(2, F)$ , twisted forms of  $\mathrm{GL}(n, F)$ . The irreducible  $R$ -representations  $V$  of reductive  $p$ -adic groups are easier to study than those of the Galois groups but they are rarely finite dimensional. Their classification is very involved but their behavior around the identity, that we call the asymptotics of  $V$ , are expected to be more uniform. We shall survey what is known (joint work with Guy Henniart), and what it suggests.