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In this paper, valuation theory is used to analyse infinitesimal behaviour of solutions of linear differential equations. For any Picard-Vessiot extension  $(F / K, \partial)$  with differential Galois group  $SG$ , the author looks at the valuations of  $F$  which are left invariant by  $SG$ . The main reason for this is the following: If a given invariant valuation  $\nu$  measures infinitesimal behaviour of functions belonging to  $F$ , then two conjugate elements of  $F$  will share the same infinitesimal behaviour with respect to  $\nu$ . This memoir is divided into seven sections.