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variety over a p-adic field in terms of Higgs bundles. The constructions use several tools that he developed to establish the existence of Hodge–Tate decompositions [24], in particular his theory of almost étale extensions [26]. Once completed, this p-adic Simpson correspondence should thus naturally provide the best Hodge–Tate type statements in p-adic Hodge theory.

The p-adic Simpson Correspondence - Foreword

The current chapter is devoted to the construction and study of the p-adic Simpson correspondence, following the general approach summarized in Chapter I, for an affine logarithmic scheme of a certain type (II.6.2). Section II.2 contains the main notation and general conventions, in particular, those related to Higgs modules (II.2.8).

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Keywords: Almost étale extensions; Higgs-bundles; p-adic Hodge theory 1. Introduction The purpose of this note is to construct Higgs-bundles associated to representations of the geometric fundamental group of a curve over a p-adic field K . It thus can be considered a p-adic analogue of the results of Simpson and Corlette (see [12]).

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Notes on the local p-adic Simpson correspondence 797 that $v_p(\hat{p}^\pm) = \hat{p}^\pm$. Let $E_i \rightarrow \bullet_n K/K$ be the set of finite extensions of K contained in K . For an OK -module or an OK -algebra R , R (resp. RK) always denotes the p-adic completion $\lim_{\leftarrow} R/p^n R$ (resp. $R \hat{\otimes}_O K$). Throughout this paper, the term "œlog structure" is used in the sense of Fontaine-Illusie [21].

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