BOUNDING RAMIFICATION BY COVERS AND CURVES

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small erratum

In the proof of Corollary 1.3, **replace** the second sentence:

Then by [BOU, Cor. I.6.3.4] ... (see [EK12], Lem. B.2, Proof).'

with:

**Then by [EK12], Lem. B.2, Proof, there is a finite quotient

$$q : \rho(\pi_1^{\text{ét}}(X,x)) \twoheadrightarrow \overline{\rho(\pi_1^{\text{ét}}(X,x))}$$

such that for any smooth irreducible $C \hookrightarrow X$ through x, the induced representation

$$\rho|_C : \pi_1^{\text{ét}}(C,x) \to \pi_1^{\text{ét}}(X,x) \xrightarrow{\rho} GL_r(\mathcal{O})$$

has image

$$\rho|_C(\pi_1^{\text{ét}}(C,x)) = \rho(\pi_1^{\text{ét}}(X,x))$$

if

$$q \circ \rho|_C(\pi_1^{\text{ét}}(C,x)) = \overline{\rho(\pi_1^{\text{ét}}(X,x))}.$$

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