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On the Metabelian Local Artin Map I: Galois Conjugation Law

Kazım İlhan İKEDA
TÜBİTAK-Feza Gürsey Institute,
P.O. Box 6, 81220 Çengelköy,
Istanbul/TURKEY
e-mail: ilhan@gursey.gov.tr

 [Keywords](#)
 [Authors](#)



math@tubitak.gov.tr

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Abstract: It is proved that, for a (henselian) local field K and for a fixed Lubin-Tate splitting ϕ over K , the metabelian local Artin map $(?, K)_\phi: B(K, \phi) \xrightarrow{\sim} \text{Gal}(K^{(ab)^2}/K)$ satisfies the Galois conjugation law $(\tilde{\sigma}^+(\alpha), \sigma(K))_{\tilde{\sigma}\phi\tilde{\sigma}^{-1}} = \tilde{\sigma}|_{K^{(ab)^2}}(\alpha, K)_\phi \tilde{\sigma}^{-1}|_{\tilde{\sigma}(K^{(ab)^2})}$ for any $\alpha \in B(K, \phi)$, and for any embedding $\sigma: K \hookrightarrow K^{\text{sep}}$, where $\tilde{\sigma} \in \text{Aut}(K^{\text{sep}})$ is a fixed extension to K^{sep} of the embedding $\sigma: K \hookrightarrow K^{\text{sep}}$.

Key Words: local fields, metabelian extensions, metabelian local Artin map, non-abelian local class field theory.

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