

**OKUTSU-MONTES REPRESENTATIONS OF PRIME  
IDEALS OF ONE-DIMENSIONAL INTEGRAL  
CLOSURES**

ENRIC NART

*Abstract*

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This is a survey on Okutsu-Montes representations of prime ideals of certain one-dimensional integral closures. These representations facilitate the computational resolution of several arithmetic tasks concerning prime ideals of global fields.

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*Key words*. Montes algorithm, Newton polygon, local field, global field, integral basis, Okutsu-Montes representation.