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**Central units in alternative loop rings. (English summary)**

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An RA loop is a loop whose loop ring, in any characteristic, is an alternative but non-associative ring. Let  $L$  be an RA loop,  $\mathcal{U}(\mathbf{Z}L)$  the set of units in the integral loop ring  $\mathbf{Z}L$  and  $T$  the set of torsion elements of  $L$ , which is a subloop of  $L$  (an element  $x \in L$  is a torsion element if there exists  $n \in \mathbb{N}$  with  $x^n = 1$ ). The main result of the paper proves that any central unit  $\mu$  of  $\mathbf{Z}L$  can be factored as  $\mu = \mu_0 l = l \mu_0$ , where  $l \in L$  and  $\mu_0 \in \mathcal{U}(\mathbf{Z}T)$ . This result can be applied to obtain necessary and sufficient conditions for an integral loop ring  $\mathbf{Z}L$ , with  $L$  an RA loop, to have no nontrivial central units.

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## References

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*Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.*