

On some mysterious Mal'tsev conditions and the associated imaginary co-operations

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We prove that varietal techniques based on the existence of operations of a certain arity can be extended to n -permutable categories with finite coproducts using a method developed by D. Bourn and Z. Janelidze [1]. In particular, we give a categorical version of the characterisation theorems for n -permutable varieties due to J. Hagemann and A. Mitschke [3].

References

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- [4] N. Martins-Ferreira and T. Van der Linden, *Categories vs. groupoids via generalised Mal'tsev properties*, preprint [arXiv:1206.2745v1](https://arxiv.org/abs/1206.2745v1).
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