

Problem #83

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Summary: Extend combination results on rewrite orderings to systems involving $\beta\eta$ reductions.

A collection of rewrite orderings operating on disjoint signatures can be extended to an ordering operating on the union of the signatures, while still preserving part of the properties [Rub94]. Such constructions can be used for proving modular termination properties of rewrite systems. Do they extend to the case where one of the starting orderings is given by $\beta\eta$ reductions on typed lambda terms?

Bibliography

- [Rub94] Albert Rubio. *Automated deduction with constrained clauses*. PhD thesis, Univ. de Catalunya, 1994.