

- ▶ MARCOS M. RECIO, JOSÉ MIGUEL BLANCO, SANDRA M. LÓPEZ, *Exploring the building blocks of 2 set-up Routley-Meyer semantics*.
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While 2 set-up Routley-Meyer semantics has been historically considered as less interesting than regular Routley-Meyer semantics, this trend seems to break in recent years [1]. In particular, its accessibility relation has been studied with respect to the semantic postulates of its regular counterpart in certain many-valued logics [2]. Nevertheless, there is another relationship to be explored within 2 set-up Routley-Meyer semantics: the one of the accessibility relation with respect to Hilbert-style theorems. For each of the eight possible accessibility relations supported by 2 set-up Routley-Meyer semantics, there is an intrinsic relationship with, at least, one theorem that needs to be part of the logical system endowed with this kind of semantics. Thus, the main aim of this talk is to present an approach to how the accessibility relations relate to Hilbert-style theorems and how each other supports themselves during the process of soundness and completeness proofs.

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[1] G. ROBLES, S. M. LÓPEZ, J. M. BLANCO, M. M. RECIO, J. R. PARADELA, *A 2-set-up Routley-Meyer semantics for the 4-valued relevant logic E4*, ***Bulletin of the Section of Logic***, vol. 45 (2016), no. 2, pp. 93–109.

[2] J. M. BLANCO, S. M. LÓPEZ, M. M. RECIO, *On how the 2 Set-up Routley-Meyer semantics are a case of the Reduced General Routley-Meyer semantics in the context of some 4-valued logics*, ***Journal of Applied Logics***, vol. 10 (2023), no. 1, pp. 1–18.