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*Computing the resolvent of the sum of maximally monotone operators with the averaged alternating modified reflections algorithm*

The averaged alternating modified reflections algorithm is a projection method originally designed for finding the closest point in the intersection of closed and convex sets in a Hilbert space. In this talk, we show how the scheme can be generalized so that it can deal with monotone operators. This gives rise to a new strongly convergent splitting algorithm for computing the resolvent of a sum of maximally monotone operators.

Joint work with Francisco J. Aragón Artacho (University of Alicante, Spain).