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Assouad dimensions of complementary sets

Given a positive, decreasing sequence a , whose sum is L , we consider all the closed subsets of $[0, L]$ such that the lengths of their complementary open intervals are in one to one correspondence with the sequence a . The sets in this class have zero Lebesgue measure. In this talk I'm going to discuss the possible values that Assouad-type dimensions can attain for this class of sets. In many cases, the set of attainable values is a closed interval whose endpoints we determine. This is joint work with Kathryn Hare and Franklin Mendivil.