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*n-solvable equivalence of links to boundary links.*

Consider a link  $L$  in  $S^3$  up to concordance with linking number zero. It can be argued that boundary links are easier to study than arbitrary links because they have disjoint Seifert surfaces and hence one can get a strong version of a Seifert matrix. The most basic obstruction to a link being concordant to a boundary link are Milnor invariants. However, if  $L$  has vanishing Milnor invariants then one can ask if it is concordant to a boundary link. However, in their the early 90s Cochran and Orr showed there were examples of links with vanishing Milnor invariants that are not concordant to any boundary link. Instead of concordance, we can ask if there is another equivalence relations on the links up to concordance such that relates any link with vanishing Milnor invariants with a boundary link. We answer this question for  $n$ -solvable equivalence in all cases except possibly the case when  $n=0.5$ . This is joint work with Christopher Davis and Jung Hwan Park. (Received January 20, 2021)