

## At-most-n-valued maps

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We discuss various models of “at-most-n-valued maps”. That is, for some positive natural number  $n$ , we consider multivalued maps  $f$  for which  $f(x)$  has nonzero cardinality of at most  $n$  for each  $x$  in the domain. Several authors have considered various classes of such maps, including equicardinal (exactly- $n$ -valued) maps, “ $n$ -fold maps” defined in terms of finite covering spaces, symmetric product maps, and weighted maps with natural number weights. We will briefly define each of these classes and discuss how they relate to one another. This talk is based on joint work with Daciberg Lima Goncalves (U. of Sao Paulo, Brazil) and Robert Skiba (Copernicus U., Torun Poland).

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