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*Arc-transitive bicirculants*

A graph on  $2n$  vertices is a bicirculant if it admits an automorphism that is a permutation with two cycles of length  $n$ . For example, the Petersen and Heawood graphs. Arc-transitive bicirculants of valencies three, four and five have previously been classified by various authors. In this talk I will discuss recent joint work with Alice Devillers and Wei Jin that characterises all arc-transitive bicirculants and provides a framework for their complete classification.