

## Comparison between atom-bond connectivity indices of graphs

### ABSTRACT

The atom-bond connectivity index ABC is a much studied degree-based graph invariant with noteworthy applications in chemistry. Few years ago, a new distance-based variant of this index, ABCGG, was introduced. We establish relations between the two ABC-indices. In particular, we determine classes of graph for which ABC is greater than (resp. equal to or less than) ABCGG.

**Keyword:** Atom-bond; ABC; ABCGG