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**Nooreen Khan\*** ([noureen.khan@unt.edu](mailto:noureen.khan@unt.edu)). *Algebraic structure of virtual rational tangles.*

Recall that a virtual knot is composed of both classical and virtual crossings and ideally it can arise as the numerator closure of a virtual 2-tangle. The class of virtual rational tangles resides as a special class of virtual 2-tangles and particularly interesting because of their presentation as generalized rational 2-tangles. A virtual rational 2-tangle should be considered as diagrammatic picture of two strands of a tangle which are far from each other. In this paper we present characteristics of virtual rational tangles to define algebra of virtual rational tangles. (Received January 15, 2016)