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**TITLE:** An algebraic approach to the non-leaving face property

**ABSTRACT:** The non-leaving face property is a graph theoretical property that has been studied by Sleator, Trajan and Thurston in 1988 and by Ceballos and Pilaud in 2014. We will see what are the implications on this property in tilting theory and we will use minimal approximations to prove it for cases  $A_n$  and  $D_n$ .



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