



A possibly infinite tableau derivation $s_0 \Rightarrow_{\text{FT}} s_1 \Rightarrow_{\text{FT}} \dots$ is called *saturated* if for all its open sequences M_i of some pair $(M_i, X_i) \in s_i$ where not all successor sequences of M_i are closed and all formulas ϕ occurring in M_i , there is an index $j > i$ and some pair $(M_j, X_j) \in s_j$, M_i is a prefix of M_j , if in case ϕ is an α -formula then both direct descendants are part of M_j , if it is a β -formula then one of its descendants is part of M_j , if it is a δ - or γ -formula then one direct descendant is part of M_j , and if Branch-Closing is applicable to M_i then M_j is closed.

