

Given hypergraphs  $H$  and  $P$ ,  $wsat(H, P)$  denotes the smallest number of edges in a subgraph of  $H$  with the property that the missing edges can be sequentially added such that the addition of every edge creates a new copy of  $P$ . In 1985 Alon proved that  $wsat(K_n, P)/n$  tends to a finite limit for any graph  $P$ . A generalisation of this Theorem to  $r$ -uniform hypergraphs was conjectured by Tuza in 1992 and proved by Shapira and Tyomkyn in 2021. In this thesis, we use the methodology introduced by Shapira and Tyomkyn to prove a similar theorem when  $H$  is a complete  $r$ -partite  $r$ -uniform hypergraph.