

Diagram illustrating the structure of the W -invariant for the E_6 root system, showing the decomposition of the root system into irreducible components and the corresponding invariant polynomials.

The diagram is organized into rows, each representing a different invariant polynomial. The polynomials are labeled as follows:

- Row 1: W
- Row 2: W_1 , W_2 , W_3 , W_4 , W_5 , W_6 , W_7 , W_8 , W_9 , W_{10} , W_{11} , W_{12} , W_{13} , W_{14} , W_{15} , W_{16} , W_{17} , W_{18} , W_{19} , W_{20} , W_{21} , W_{22} , W_{23} , W_{24} , W_{25} , W_{26} , W_{27} , W_{28} , W_{29} , W_{30} , W_{31} , W_{32} , W_{33} , W_{34} , W_{35} , W_{36} , W_{37} , W_{38} , W_{39} , W_{40} , W_{41} , W_{42} , W_{43} , W_{44} , W_{45} , W_{46} , W_{47} , W_{48} , W_{49} , W_{50} , W_{51} , W_{52} , W_{53} , W_{54} , W_{55} , W_{56} , W_{57} , W_{58} , W_{59} , W_{60} , W_{61} , W_{62} , W_{63} , W_{64} , W_{65} , W_{66} , W_{67} , W_{68} , W_{69} , W_{70} , W_{71} , W_{72} , W_{73} , W_{74} , W_{75} , W_{76} , W_{77} , W_{78} , W_{79} , W_{80} , W_{81} , W_{82} , W_{83} , W_{84} , W_{85} , W_{86} , W_{87} , W_{88} , W_{89} , W_{90} , W_{91} , W_{92} , W_{93} , W_{94} , W_{95} , W_{96} , W_{97} , W_{98} , W_{99} , W_{100} , W_{101} , W_{102} , W_{103} , W_{104} , W_{105} , W_{106} , W_{107} , W_{108} , W_{109} , W_{110} , W_{111} , W_{112} , W_{113} , W_{114} , W_{115} , W_{116} , W_{117} , W_{118} , W_{119} , W_{120} , W_{121} , W_{122} , W_{123} , W_{124} , W_{125} , W_{126} , W_{127} , W_{128} , W_{129} , W_{130} , W_{131} , W_{132} , W_{133} , W_{134} , W_{135} , W_{136} , W_{137} , W_{138} , W_{139} , W_{140} , W_{141} , W_{142} , W_{143} , W_{144} , W_{145} , W_{146} , W_{147} , W_{148} , W_{149} , W_{150} , W_{151} , W_{152} , W_{153} , W_{154} , W_{155} , W_{156} , W_{157} , W_{158} , W_{159} , W_{160} , W_{161} , W_{162} , W_{163} , W_{164} , W_{165} , W_{166} , W_{167} , W_{168} , W_{169} , W_{170} , W_{171} , W_{172} , W_{173} , W_{174} , W_{175} , W_{176} , W_{177} , W_{178} , W_{179} , W_{180} , W_{181} , W_{182} , W_{183} , W_{184} , W_{185} , W_{186} , W_{187} , W_{188} , W_{189} , W_{190} , W_{191} , W_{192} , W_{193} , W_{194} , W_{195} , W_{196} , W_{197} , W_{198} , W_{199} , W_{200} , W_{201} , W_{202} , W_{203} , W_{204} , W_{205} , W_{206} , W_{207} , W_{208} , W_{209} , W_{210} , W_{211} , W_{212} , W_{213} , W_{214} , W_{215} , W_{216} , W_{217} , W_{218} , W_{219} , W_{220} , W_{221} , W_{222} , W_{223} , W_{224} , W_{225} , W_{226} , W_{227} , W_{228} , W_{229} , W_{230} , W_{231} , W_{232} , W_{233} , W_{234} , W_{235} , W_{236} , W_{237} , W_{238} , W_{239} , W_{240} , W_{241} , W_{242} , W_{243} , W_{244} , W_{245} , W_{246} , W_{247} , W_{248} , W_{249} , W_{250} , W_{251} , W_{252} , W_{253} , W_{254} , W_{255} , W_{256} , W_{257} , W_{258} , W_{259} , W_{260} , W_{261} , W_{262} , W_{263} , W_{264} , W_{265} , W_{266} , W_{267} , W_{268} , W_{269} , W_{270} , W_{271} , W_{272} , W_{273} , W_{274} , W_{275} , W_{276} , W_{277} , W_{278} , W_{279} , W_{280} , W_{281} , W_{282} , W_{283} , W_{284} , W_{285} , W_{286} , W_{287} , W_{288} , W_{289} , W_{290} , W_{291} , W_{292} , W_{293} , W_{294} , W_{295} , W_{296} , W_{297} , W_{298} , W_{299} , W_{300} , W_{301} , W_{302} , W_{303} , W_{304} , W_{305} , W_{306} , W_{307} , W_{308} , W_{309} , W_{310} , W_{311} , W_{312} , W_{313} , W_{314} , W_{315} , W_{316} , W_{317} , W_{318} , W_{319} , W_{320} , W_{321} , W_{322} , W_{323} , W_{324} , W_{325} , W_{326} , W_{327} , W_{328} , W_{329} , W_{330} , W_{331} , W_{332} , W_{333} , W_{334} , W_{335} , W_{336} , W_{337} , W_{338} , W_{339} , W_{340} , W_{341} , W_{342} , W_{343} , W_{344} , W_{345} , W_{346} , W_{347} , W_{348} , W_{349} , W_{350} , W_{351} , W_{352} , W_{353} , W_{354} , W_{355} , W_{356} , W_{357} , W_{358} , W_{359} , W_{360} , W_{361} , W_{362} , W_{363} , W_{364} , W_{365} , W_{366} , W_{367} , W_{368} , W_{369} , W_{370} , W_{371} , W_{372} , W_{373}