

Table 1. Plethysms of the type $Q_\lambda \otimes \{\mu\}_q$

$Q_2 \otimes \{2\}_q$	Q_4	$+ Q_{31}$			
$Q_2 \otimes \{3\}_q$	Q_6	$+ Q_{51}$	$+ 2Q_{42}$		
$Q_2 \otimes \{21\}_q$	Q_6	$+ 3Q_{51}$	$+ 3Q_{42}$	$+ Q_{321}$	
$Q_3 \otimes \{2\}_q$	Q_6	$+ Q_{51}$	$+ Q_{42}$		
$Q_{21} \otimes \{2\}_q$	$2Q_{42}$				
$Q_4 \otimes \{2\}_q$	Q_8	$+ Q_{71}$	$+ Q_{62}$	$+ Q_{53}$	
$Q_{31} \otimes \{2\}_q$	$2Q_{62}$	$+ 4Q_{53}$	$+ 2Q_{521}$	$+ 2Q_{431}$	
$Q_2 \otimes \{4\}_q$	Q_8	$+ Q_{71}$	$+ 2Q_{62}$	$+ 3Q_{53}$	$+ Q_{521}$
	$+ Q_{431}$				
$Q_2 \otimes \{31\}_q$	Q_8	$+ 3Q_{71}$	$+ 7Q_{62}$	$+ 7Q_{53}$	$+ 4Q_{521}$
	$+ 3Q_{431}$				
$Q_2 \otimes \{2^2\}_q$	$2Q_{71}$	$+ 5Q_{62}$	$+ 4Q_{53}$	$+ 3Q_{521}$	$+ 2Q_{431}$
$Q_3 \otimes \{3\}_q$	Q_9	$+ Q_{81}$	$+ 3Q_{72}$	$+ 3Q_{63}$	$+ Q_{621}$
	$+ Q_{54}$	$+ 2Q_{531}$			
$Q_3 \otimes \{21\}_q$	Q_9	$+ 3Q_{81}$	$+ 5Q_{72}$	$+ 6Q_{63}$	$+ 3Q_{621}$
	$+ 3Q_{54}$	$+ 3Q_{531}$	$+ Q_{432}$		
$Q_{21} \otimes \{3\}_q$	$3Q_{63}$	$+ Q_{621}$	$+ 2Q_{54}$	$+ 3Q_{531}$	$+ Q_{432}$
$Q_{21} \otimes \{21\}_q$	$5Q_{63}$	$+ 3Q_{621}$	$+ 6Q_{54}$	$+ 5Q_{531}$	$+ 3Q_{432}$
$Q_5 \otimes \{2\}_q$	Q_{10}	$+ Q_{91}$	$+ Q_{82}$	$+ Q_{73}$	$+ Q_{64}$
$Q_{41} \otimes \{2\}_q$	$2Q_{82}$	$+ 4Q_{73}$	$+ 2Q_{721}$	$+ 4Q_{64}$	$+ 4Q_{631}$
	$+ 2Q_{541}$	$+ 2Q_{532}$			
$Q_{32} \otimes \{2\}_q$	$2Q_{64}$	$+ 2Q_{631}$	$+ 2Q_{541}$	$+ 2Q_{532}$	
$Q_2 \otimes \{5\}_q$	Q_{10}	$+ Q_{91}$	$+ 2Q_{82}$	$+ 3Q_{73}$	$+ Q_{721}$
	$+ 4Q_{64}$	$+ 3Q_{631}$	$+ 2Q_{541}$	$+ 2Q_{532}$	
$Q_2 \otimes \{41\}_q$	Q_{10}	$+ 3Q_{91}$	$+ 7Q_{82}$	$+ 13Q_{73}$	$+ 6Q_{721}$
	$+ 12Q_{64}$	$+ 13Q_{631}$	$+ 8Q_{541}$	$+ 7Q_{532}$	$+ Q_{4321}$
$Q_2 \otimes \{32\}_q$	$2Q_{91}$	$+ 9Q_{82}$	$+ 16Q_{73}$	$+ 9Q_{721}$	$+ 13Q_{64}$
	$+ 17Q_{631}$	$+ 9Q_{541}$	$+ 9Q_{532}$	$+ Q_{4321}$	
$Q_2 \otimes \{31^2\}_q$	Q_{10}	$+ 3Q_{91}$	$+ 11Q_{82}$	$+ 19Q_{73}$	$+ 10Q_{721}$
	$+ 17Q_{64}$	$+ 20Q_{631}$	$+ 11Q_{541}$	$+ 11Q_{532}$	$+ Q_{4321}$
$Q_6 \otimes \{2\}_q$	Q_{12}	$+ Q_{11\ 1}$	$+ Q_{10\ 2}$	$+ Q_{93}$	$+ Q_{84}$
	$+ Q_{75}$				
$Q_{51} \otimes \{2\}_q$	$2Q_{10\ 2}$	$+ 4Q_{93}$	$+ 2Q_{921}$	$+ 4Q_{84}$	$+ 4Q_{831}$
	$+ 4Q_{75}$	$+ 4Q_{741}$	$+ 2Q_{732}$	$+ 2Q_{651}$	$+ 2Q_{642}$
$Q_{42} \otimes \{2\}_q$	$2Q_{84}$	$+ 2Q_{831}$	$+ 4Q_{75}$	$+ 6Q_{741}$	$+ 4Q_{732}$
	$+ 4Q_{651}$	$+ 8Q_{642}$	$+ 2Q_{6321}$	$+ 2Q_{543}$	$+ 2Q_{5421}$
$Q_{321} \otimes \{2\}_q$	$4Q_{642}$				
$Q_2 \otimes \{6\}_q$	Q_{12}	$+ Q_{11\ 1}$	$+ 2Q_{10\ 2}$	$+ 3Q_{93}$	$+ Q_{921}$
	$+ 4Q_{84}$	$+ 3Q_{831}$	$+ 5Q_{75}$	$+ 5Q_{741}$	$+ 3Q_{732}$
	$+ 3Q_{651}$	$+ 6Q_{642}$	$+ Q_{6321}$	$+ Q_{543}$	$+ Q_{5421}$
$Q_2 \otimes \{51\}_q$	Q_{12}	$+ 3Q_{11\ 1}$	$+ 7Q_{10\ 2}$	$+ 13Q_{93}$	$+ 6Q_{921}$
	$+ 20Q_{84}$	$+ 17Q_{831}$	$+ 17Q_{75}$	$+ 27Q_{741}$	$+ 18Q_{732}$
	$+ 15Q_{651}$	$+ 26Q_{642}$	$+ 6Q_{6321}$	$+ 7Q_{543}$	$+ 5Q_{5421}$
$Q_2 \otimes \{42\}_q$	$2Q_{11\ 1}$	$+ 9Q_{10\ 2}$	$+ 22Q_{93}$	$+ 11Q_{921}$	$+ 33Q_{84}$
	$+ 35Q_{831}$	$+ 26Q_{75}$	$+ 49Q_{741}$	$+ 35Q_{732}$	$+ 24Q_{651}$
	$+ 46Q_{642}$	$+ 11Q_{6321}$	$+ 11Q_{543}$	$+ 9Q_{5421}$	

$$\begin{array}{l}
Q_2 \otimes \{41^2\}_q \\
Q_2 \otimes \{321\}_q \\
Q_2 \otimes \{3^2\}_q \\
Q_4 \otimes \{3\}_q \\
Q_4 \otimes \{21\}_q \\
Q_{31} \otimes \{3\}_q \\
Q_{31} \otimes \{21\}_q \\
Q_3 \otimes \{4\}_q \\
Q_3 \otimes \{31\}_q \\
Q_3 \otimes \{2^2\}_q \\
Q_{21} \otimes \{4\}_q \\
Q_{21} \otimes \{31\}_q \\
Q_{21} \otimes \{2^2\}_q
\end{array}
\begin{array}{l}
Q_{12} \\
+ 37Q_{84} \\
+ 27Q_{651} \\
4Q_{10\ 2} \\
+ 14Q_{75} \\
+ 6Q_{6321} \\
2Q_{11\ 1} \\
+ 64Q_{831} \\
+ 81Q_{642} \\
Q_{12} \\
+ 4Q_{84} \\
+ Q_{651} \\
Q_{12} \\
+ 9Q_{84} \\
+ 3Q_{651} \\
3Q_{93} \\
+ 24Q_{741} \\
+ 7Q_{543} \\
5Q_{93} \\
+ 48Q_{741} \\
+ 17Q_{543} \\
Q_{12} \\
+ 7Q_{84} \\
+ 3Q_{651} \\
Q_{12} \\
+ 21Q_{84} \\
+ 11Q_{651} \\
2Q_{11\ 1} \\
+ 13Q_{831} \\
+ 12Q_{642} \\
4Q_{84} \\
+ 6Q_{651} \\
8Q_{84} \\
+ 16Q_{651} \\
4Q_{84} \\
+ 10Q_{651}
\end{array}
\begin{array}{l}
+ 3Q_{11\ 1} \\
+ 38Q_{831} \\
+ 52Q_{642} \\
+ 12Q_{93} \\
+ 27Q_{741} \\
+ 5Q_{543} \\
+ 13Q_{10\ 2} \\
+ 44Q_{75} \\
+ 20Q_{6321} \\
+ Q_{11\ 1} \\
+ 3Q_{831} \\
+ 2Q_{642} \\
+ 3Q_{11\ 1} \\
+ 5Q_{831} \\
+ 3Q_{642} \\
+ Q_{921} \\
+ 17Q_{732} \\
+ 7Q_{5421} \\
+ 3Q_{921} \\
+ 35Q_{732} \\
+ 13Q_{5421} \\
+ Q_{11\ 1} \\
+ 7Q_{831} \\
+ 7Q_{642} \\
+ 3Q_{11\ 1} \\
+ 20Q_{831} \\
+ 19Q_{642} \\
+ 6Q_{10\ 2} \\
+ 10Q_{75} \\
+ 3Q_{6321} \\
+ 2Q_{831} \\
+ 10Q_{642} \\
+ 8Q_{831} \\
+ 32Q_{642} \\
+ 6Q_{831} \\
+ 22Q_{642}
\end{array}
\begin{array}{l}
+ 11Q_{10\ 2} \\
+ 31Q_{75} \\
+ 12Q_{6321} \\
+ 6Q_{921} \\
+ 20Q_{732} \\
+ 5Q_{5421} \\
+ 38Q_{93} \\
+ 86Q_{741} \\
+ 20Q_{543} \\
+ 3Q_{10\ 2} \\
+ 3Q_{75} \\
+ 5Q_{10\ 2} \\
+ 5Q_{75} \\
+ Q_{543} \\
+ 10Q_{84} \\
+ 14Q_{651} \\
+ 22Q_{84} \\
+ 30Q_{651} \\
+ 3Q_{10\ 2} \\
+ 5Q_{75} \\
+ Q_{6321} \\
+ 9Q_{10\ 2} \\
+ 15Q_{75} \\
+ 4Q_{6321} \\
+ 11Q_{93} \\
+ 16Q_{741} \\
+ 3Q_{543} \\
+ 4Q_{75} \\
+ 3Q_{6321} \\
+ 16Q_{75} \\
+ 8Q_{6321} \\
+ 12Q_{75} \\
+ 5Q_{6321}
\end{array}
\begin{array}{l}
+ 25Q_{93} \\
+ 54Q_{741} \\
+ 12Q_{543} \\
+ 17Q_{84} \\
+ 12Q_{651} \\
+ 21Q_{921} \\
+ 65Q_{732} \\
+ 15Q_{5421} \\
+ 4Q_{93} \\
+ 3Q_{741} \\
+ 8Q_{93} \\
+ 6Q_{741} \\
+ 11Q_{831} \\
+ 30Q_{642} \\
+ 21Q_{831} \\
+ 58Q_{642} \\
+ 6Q_{93} \\
+ 8Q_{741} \\
+ Q_{543} \\
+ 17Q_{93} \\
+ 24Q_{741} \\
+ 4Q_{543} \\
+ 6Q_{921} \\
+ 11Q_{732} \\
+ 2Q_{5421} \\
+ 8Q_{741} \\
+ 4Q_{543} \\
+ 24Q_{741} \\
+ 8Q_{543} \\
+ 16Q_{741} \\
+ 4Q_{543}
\end{array}
\begin{array}{l}
+ 12Q_{921} \\
+ 38Q_{732} \\
+ 10Q_{5421} \\
+ 21Q_{831} \\
+ 26Q_{642} \\
+ 58Q_{84} \\
+ 42Q_{651} \\
+ Q_{921} \\
+ Q_{732} \\
+ 3Q_{921} \\
+ 3Q_{732} \\
+ 14Q_{75} \\
+ 7Q_{6321} \\
+ 26Q_{75} \\
+ 15Q_{6321} \\
+ 2Q_{921} \\
+ 5Q_{732} \\
+ Q_{5421} \\
+ 8Q_{921} \\
+ 16Q_{732} \\
+ 3Q_{5421} \\
+ 14Q_{84} \\
+ 8Q_{651} \\
+ 6Q_{732} \\
+ 2Q_{5421} \\
+ 16Q_{732} \\
+ 8Q_{5421} \\
+ 10Q_{732} \\
+ 6Q_{5421}
\end{array}$$

Table 2. Plethysms of the type $\{\lambda\}_q \otimes Q_\mu$

$\{2\}_q \otimes Q_2$	Q_4	$+ Q_{31}$			
$\{2\}_q \otimes Q_3$	Q_6	$+ Q_{51}$	$+ 2Q_{42}$		
$\{2\}_q \otimes Q_{21}$	$2Q_{51}$	$+ Q_{42}$	$+ Q_{321}$		
$\{3\}_q \otimes Q_2$	Q_6	$+ Q_{51}$	$+ Q_{42}$		
$\{21\}_q \otimes Q_2$	Q_6	$+ 3Q_{51}$	$+ 5Q_{42}$	$+ Q_{321}$	
$\{4\}_q \otimes Q_2$	Q_8	$+ Q_{71}$	$+ Q_{62}$	$+ Q_{53}$	
$\{31\}_q \otimes Q_2$	Q_8	$+ 3Q_{71}$	$+ 7Q_{62}$	$+ 7Q_{53}$	$+ 4Q_{521}$
	$+ 3Q_{431}$				
$\{2^2\}_q \otimes Q_2$	$2Q_{62}$	$+ 4Q_{53}$	$+ 2Q_{521}$	$+ 2Q_{431}$	
$\{2\}_q \otimes Q_4$	Q_8	$+ Q_{71}$	$+ 2Q_{62}$	$+ 3Q_{53}$	$+ Q_{521}$
	$+ Q_{431}$				
$\{2\}_q \otimes Q_{31}$	$2Q_{71}$	$+ 5Q_{62}$	$+ 4Q_{53}$	$+ 3Q_{521}$	$+ 2Q_{431}$
$\{3\}_q \otimes Q_3$	Q_9	$+ Q_{81}$	$+ 3Q_{72}$	$+ 3Q_{63}$	$+ Q_{621}$
	$+ Q_{54}$	$+ 2Q_{531}$			
$\{3\}_q \otimes Q_{21}$	$2Q_{81}$	$+ 2Q_{72}$	$+ 3Q_{63}$	$+ 2Q_{621}$	$+ 2Q_{54}$
	$+ Q_{531}$	$+ Q_{432}$			
$\{21\}_q \otimes Q_3$	Q_9	$+ 3Q_{81}$	$+ 13Q_{72}$	$+ 22Q_{63}$	$+ 11Q_{621}$
	$+ 11Q_{54}$	$+ 19Q_{531}$	$+ 5Q_{432}$		
$\{21\}_q \otimes Q_{21}$	$4Q_{81}$	$+ 12Q_{72}$	$+ 21Q_{63}$	$+ 13Q_{621}$	$+ 14Q_{54}$
	$+ 17Q_{531}$	$+ 7Q_{432}$			
$\{5\}_q \otimes Q_2$	Q_{10}	$+ Q_{91}$	$+ Q_{82}$	$+ Q_{73}$	$+ Q_{64}$
$\{41\}_q \otimes Q_2$	Q_{10}	$+ 3Q_{91}$	$+ 7Q_{82}$	$+ 9Q_{73}$	$+ 4Q_{721}$
	$+ 7Q_{64}$	$+ 6Q_{631}$	$+ 3Q_{541}$	$+ 2Q_{532}$	
$\{32\}_q \otimes Q_2$	$2Q_{82}$	$+ 8Q_{73}$	$+ 4Q_{721}$	$+ 10Q_{64}$	$+ 12Q_{631}$
	$+ 8Q_{541}$	$+ 8Q_{532}$	$+ Q_{4321}$		
$\{31^2\}_q \otimes Q_2$	Q_{10}	$+ 3Q_{91}$	$+ 9Q_{82}$	$+ 15Q_{73}$	$+ 8Q_{721}$
	$+ 13Q_{64}$	$+ 16Q_{631}$	$+ 9Q_{541}$	$+ 9Q_{532}$	$+ Q_{4321}$
$\{2\}_q \otimes Q_5$	Q_{10}	$+ Q_{91}$	$+ 2Q_{82}$	$+ 3Q_{73}$	$+ Q_{721}$
	$+ 4Q_{64}$	$+ 3Q_{631}$	$+ 2Q_{541}$	$+ 2Q_{532}$	
$\{2\}_q \otimes Q_{41}$	$2Q_{91}$	$+ 5Q_{82}$	$+ 10Q_{73}$	$+ 5Q_{721}$	$+ 8Q_{64}$
	$+ 10Q_{631}$	$+ 6Q_{541}$	$+ 5Q_{532}$	$+ Q_{4321}$	
$\{2\}_q \otimes Q_{32}$	$4Q_{82}$	$+ 6Q_{73}$	$+ 4Q_{721}$	$+ 5Q_{64}$	$+ 7Q_{631}$
	$+ 3Q_{541}$	$+ 4Q_{532}$			
$\{4\}_q \otimes Q_3$	Q_{12}	$+ Q_{11\ 1}$	$+ 3Q_{10\ 2}$	$+ 4Q_{93}$	$+ Q_{921}$
	$+ 4Q_{84}$	$+ 3Q_{831}$	$+ 3Q_{75}$	$+ 3Q_{741}$	$+ Q_{732}$
	$+ Q_{651}$	$+ 2Q_{642}$			
$\{4\}_q \otimes Q_{21}$	$2Q_{11\ 1}$	$+ 2Q_{10\ 2}$	$+ 4Q_{93}$	$+ 2Q_{921}$	$+ 5Q_{84}$
	$+ 2Q_{831}$	$+ 2Q_{75}$	$+ 3Q_{741}$	$+ 2Q_{732}$	$+ 2Q_{651}$
	$+ Q_{642}$	$+ Q_{543}$			
$\{31\}_q \otimes Q_3$	Q_{12}	$+ 3Q_{11\ 1}$	$+ 15Q_{10\ 2}$	$+ 37Q_{93}$	$+ 18Q_{921}$
	$+ 54Q_{84}$	$+ 59Q_{831}$	$+ 45Q_{75}$	$+ 81Q_{741}$	$+ 58Q_{732}$
	$+ 39Q_{651}$	$+ 78Q_{642}$	$+ 18Q_{6321}$	$+ 17Q_{543}$	$+ 15Q_{5421}$
$\{31\}_q \otimes Q_{21}$	$4Q_{11\ 1}$	$+ 14Q_{10\ 2}$	$+ 36Q_{93}$	$+ 20Q_{921}$	$+ 57Q_{84}$
	$+ 57Q_{831}$	$+ 42Q_{75}$	$+ 81Q_{741}$	$+ 60Q_{732}$	$+ 42Q_{651}$
	$+ 75Q_{642}$	$+ 19Q_{6321}$	$+ 21Q_{543}$	$+ 14Q_{5421}$	
$\{2^2\}_q \otimes Q_3$	$3Q_{93}$	$+ Q_{921}$	$+ 10Q_{84}$	$+ 11Q_{831}$	$+ 14Q_{75}$
	$+ 24Q_{741}$	$+ 17Q_{732}$	$+ 14Q_{651}$	$+ 30Q_{642}$	$+ 7Q_{6321}$
	$+ 7Q_{543}$	$+ 7Q_{5421}$			

$\{2^2\}_q \otimes Q_{21}$	$2Q_{93}$ $+ 24Q_{741}$ $+ 10Q_{543}$	$+ 2Q_{921}$ $+ 18Q_{732}$ $+ 6Q_{5421}$	$+ 12Q_{84}$ $+ 16Q_{651}$	$+ 10Q_{831}$ $+ 28Q_{642}$	$+ 12Q_{75}$ $+ 8Q_{6321}$
$\{3\}_q \otimes Q_4$	Q_{12} $+ 7Q_{84}$ $+ 3Q_{651}$	$+ Q_{11\ 1}$ $+ 7Q_{831}$ $+ 7Q_{642}$	$+ 3Q_{10\ 2}$ $+ 5Q_{75}$ $+ Q_{6321}$	$+ 6Q_{93}$ $+ 8Q_{741}$ $+ Q_{543}$	$+ 2Q_{921}$ $+ 5Q_{732}$ $+ Q_{5421}$
$\{3\}_q \otimes Q_{31}$	$2Q_{11\ 1}$ $+ 13Q_{831}$ $+ 12Q_{642}$	$+ 6Q_{10\ 2}$ $+ 10Q_{75}$ $+ 3Q_{6321}$	$+ 11Q_{93}$ $+ 16Q_{741}$ $+ 3Q_{543}$	$+ 6Q_{921}$ $+ 11Q_{732}$ $+ 2Q_{5421}$	$+ 14Q_{84}$ $+ 8Q_{651}$
$\{21\}_q \otimes Q_4$	Q_{12} $+ 79Q_{84}$ $+ 67Q_{651}$	$+ 3Q_{11\ 1}$ $+ 81Q_{831}$ $+ 133Q_{642}$	$+ 13Q_{10\ 2}$ $+ 65Q_{75}$ $+ 32Q_{6321}$	$+ 44Q_{93}$ $+ 128Q_{741}$ $+ 35Q_{543}$	$+ 21Q_{921}$ $+ 95Q_{732}$ $+ 26Q_{5421}$
$\{21\}_q \otimes Q_{31}$	$4Q_{11\ 1}$ $+ 165Q_{831}$ $+ 266Q_{642}$	$+ 28Q_{10\ 2}$ $+ 138Q_{75}$ $+ 65Q_{6321}$	$+ 85Q_{93}$ $+ 256Q_{741}$ $+ 65Q_{543}$	$+ 45Q_{921}$ $+ 187Q_{732}$ $+ 55Q_{5421}$	$+ 150Q_{84}$ $+ 134Q_{651}$

Table 3. Plethysms of the type $Q_\lambda \otimes Q_\mu$

$Q_2 \otimes Q_2$	Q_4	$+ Q_{31}$			
$Q_2 \otimes Q_3$	Q_6	$+ Q_{51}$	$+ 2Q_{42}$		
$Q_2 \otimes Q_{21}$	$2Q_{51}$	$+ Q_{42}$	$+ Q_{321}$		
$Q_3 \otimes Q_2$	Q_6	$+ Q_{51}$	$+ Q_{42}$		
$Q_{21} \otimes Q_2$	$2Q_{42}$				
$Q_4 \otimes Q_2$	Q_8	$+ Q_{71}$	$+ Q_{62}$	$+ Q_{53}$	
$Q_{31} \otimes Q_2$	$2Q_{62}$	$+ 4Q_{53}$	$+ 2Q_{521}$	$+ 2Q_{431}$	
$Q_2 \otimes Q_4$	Q_8	$+ Q_{71}$	$+ 2Q_{62}$	$+ 3Q_{53}$	$+ Q_{521}$
	$+ Q_{431}$				
$Q_2 \otimes Q_{31}$	$2Q_{71}$	$+ 5Q_{62}$	$+ 4Q_{53}$	$+ 3Q_{521}$	$+ 2Q_{431}$
$Q_3 \otimes Q_3$	Q_9	$+ Q_{81}$	$+ 3Q_{72}$	$+ 3Q_{63}$	$+ Q_{621}$
	$+ Q_{54}$	$+ 2Q_{531}$			
$Q_3 \otimes Q_{21}$	$2Q_{81}$	$+ 2Q_{72}$	$+ 3Q_{63}$	$+ 2Q_{621}$	$+ 2Q_{54}$
	$+ Q_{531}$	$+ Q_{432}$			
$Q_{21} \otimes Q_3$	$3Q_{63}$	$+ Q_{621}$	$+ 2Q_{54}$	$+ 3Q_{531}$	$+ Q_{432}$
$Q_{21} \otimes Q_{21}$	$2Q_{63}$	$+ 2Q_{621}$	$+ 4Q_{54}$	$+ 2Q_{531}$	$+ 2Q_{432}$
$Q_5 \otimes Q_2$	Q_{10}	$+ Q_{91}$	$+ Q_{82}$	$+ Q_{73}$	$+ Q_{64}$
$Q_{41} \otimes Q_2$	$2Q_{82}$	$+ 4Q_{73}$	$+ 2Q_{721}$	$+ 4Q_{64}$	$+ 4Q_{631}$
	$+ 2Q_{541}$	$+ 2Q_{532}$			
$Q_{32} \otimes Q_2$	$2Q_{64}$	$+ 2Q_{631}$	$+ 2Q_{541}$	$+ 2Q_{532}$	
$Q_2 \otimes Q_5$	Q_{10}	$+ Q_{91}$	$+ 2Q_{82}$	$+ 3Q_{73}$	$+ Q_{721}$
	$+ 4Q_{64}$	$+ 3Q_{631}$	$+ 2Q_{541}$	$+ 2Q_{532}$	
$Q_2 \otimes Q_{41}$	$2Q_{91}$	$+ 5Q_{82}$	$+ 10Q_{73}$	$+ 5Q_{721}$	$+ 8Q_{64}$
	$+ 10Q_{631}$	$+ 6Q_{541}$	$+ 5Q_{532}$	$+ Q_{4321}$	
$Q_2 \otimes Q_{32}$	$4Q_{82}$	$+ 6Q_{73}$	$+ 4Q_{721}$	$+ 5Q_{64}$	$+ 7Q_{631}$
	$+ 3Q_{541}$	$+ 4Q_{532}$			
$Q_2 \otimes Q_6$	Q_{12}	$+ Q_{11\ 1}$	$+ 2Q_{10\ 2}$	$+ 3Q_{93}$	$+ Q_{921}$
	$+ 4Q_{84}$	$+ 3Q_{831}$	$+ 5Q_{75}$	$+ 5Q_{741}$	$+ 3Q_{732}$
	$+ 3Q_{651}$	$+ 6Q_{642}$	$+ Q_{6321}$	$+ Q_{543}$	$+ Q_{5421}$
$Q_2 \otimes Q_{51}$	$2Q_{11\ 1}$	$+ 5Q_{10\ 2}$	$+ 10Q_{93}$	$+ 5Q_{921}$	$+ 16Q_{84}$
	$+ 14Q_{831}$	$+ 12Q_{75}$	$+ 22Q_{741}$	$+ 15Q_{732}$	$+ 12Q_{651}$
	$+ 20Q_{642}$	$+ 5Q_{6321}$	$+ 6Q_{543}$	$+ 4Q_{5421}$	
$Q_2 \otimes Q_{42}$	$4Q_{10\ 2}$	$+ 12Q_{93}$	$+ 6Q_{921}$	$+ 17Q_{84}$	$+ 21Q_{831}$
	$+ 14Q_{75}$	$+ 27Q_{741}$	$+ 20Q_{732}$	$+ 12Q_{651}$	$+ 26Q_{642}$
	$+ 6Q_{6321}$	$+ 5Q_{543}$	$+ 5Q_{5421}$		
$Q_2 \otimes Q_{321}$	$4Q_{93}$	$+ 4Q_{921}$	$+ 8Q_{84}$	$+ 8Q_{831}$	$+ 4Q_{75}$
	$+ 10Q_{741}$	$+ 10Q_{732}$	$+ 6Q_{651}$	$+ 9Q_{642}$	$+ 3Q_{6321}$
	$+ 4Q_{543}$	$+ Q_{5421}$			
$Q_6 \otimes Q_2$	Q_{12}	$+ Q_{11\ 1}$	$+ Q_{10\ 2}$	$+ Q_{93}$	$+ Q_{84}$
	$+ Q_{75}$				
$Q_{51} \otimes Q_2$	$2Q_{10\ 2}$	$+ 4Q_{93}$	$+ 2Q_{921}$	$+ 4Q_{84}$	$+ 4Q_{831}$
	$+ 4Q_{75}$	$+ 4Q_{741}$	$+ 2Q_{732}$	$+ 2Q_{651}$	$+ 2Q_{642}$
$Q_{42} \otimes Q_2$	$2Q_{84}$	$+ 2Q_{831}$	$+ 4Q_{75}$	$+ 6Q_{741}$	$+ 4Q_{732}$
	$+ 4Q_{651}$	$+ 8Q_{642}$	$+ 2Q_{6321}$	$+ 2Q_{543}$	$+ 2Q_{5421}$
$Q_{321} \otimes Q_2$	$4Q_{642}$				
$Q_4 \otimes Q_3$	Q_{12}	$+ Q_{11\ 1}$	$+ 3Q_{10\ 2}$	$+ 4Q_{93}$	$+ Q_{921}$
	$+ 4Q_{84}$	$+ 3Q_{831}$	$+ 3Q_{75}$	$+ 3Q_{741}$	$+ Q_{732}$
	$+ Q_{651}$	$+ 2Q_{642}$			
$Q_4 \otimes Q_{21}$	$2Q_{11\ 1}$	$+ 2Q_{10\ 2}$	$+ 4Q_{93}$	$+ 2Q_{921}$	$+ 5Q_{84}$
	$+ 2Q_{831}$	$+ 2Q_{75}$	$+ 3Q_{741}$	$+ 2Q_{732}$	$+ 2Q_{651}$
	$+ Q_{642}$	$+ Q_{543}$			

$Q_{31} \otimes Q_3$	$3Q_{93}$	$+ Q_{921}$	$+ 10Q_{84}$	$+ 11Q_{831}$	$+ 14Q_{75}$
	$+ 24Q_{741}$	$+ 17Q_{732}$	$+ 14Q_{651}$	$+ 30Q_{642}$	$+ 7Q_{6321}$
	$+ 7Q_{543}$	$+ 7Q_{5421}$			
$Q_{31} \otimes Q_{21}$	$2Q_{93}$	$+ 2Q_{921}$	$+ 12Q_{84}$	$+ 10Q_{831}$	$+ 12Q_{75}$
	$+ 24Q_{741}$	$+ 18Q_{732}$	$+ 16Q_{651}$	$+ 28Q_{642}$	$+ 8Q_{6321}$
	$+ 10Q_{543}$	$+ 6Q_{5421}$			
$Q_3 \otimes Q_4$	Q_{12}	$+ Q_{11\ 1}$	$+ 3Q_{10\ 2}$	$+ 6Q_{93}$	$+ 2Q_{921}$
	$+ 7Q_{84}$	$+ 7Q_{831}$	$+ 5Q_{75}$	$+ 8Q_{741}$	$+ 5Q_{732}$
	$+ 3Q_{651}$	$+ 7Q_{642}$	$+ Q_{6321}$	$+ Q_{543}$	$+ Q_{5421}$
$Q_3 \otimes Q_{31}$	$2Q_{11\ 1}$	$+ 6Q_{10\ 2}$	$+ 11Q_{93}$	$+ 6Q_{921}$	$+ 14Q_{84}$
	$+ 13Q_{831}$	$+ 10Q_{75}$	$+ 16Q_{741}$	$+ 11Q_{732}$	$+ 8Q_{651}$
	$+ 12Q_{642}$	$+ 3Q_{6321}$	$+ 3Q_{543}$	$+ 2Q_{5421}$	
$Q_{21} \otimes Q_4$	$4Q_{84}$	$+ 2Q_{831}$	$+ 4Q_{75}$	$+ 8Q_{741}$	$+ 6Q_{732}$
	$+ 6Q_{651}$	$+ 10Q_{642}$	$+ 3Q_{6321}$	$+ 4Q_{543}$	$+ 2Q_{5421}$
$Q_{21} \otimes Q_{31}$	$4Q_{84}$	$+ 6Q_{831}$	$+ 12Q_{75}$	$+ 16Q_{741}$	$+ 10Q_{732}$
	$+ 10Q_{651}$	$+ 22Q_{642}$	$+ 5Q_{6321}$	$+ 4Q_{543}$	$+ 6Q_{5421}$