SUPPLEMENTARY FILE

In this supplementary file, Section S.I gives the proofs of Properties 1 and 2; Section S.II introduces the resource-limit pair (RP) detection algorithm; Section S.III provides the critical set of RPs (CRP) detection algorithm; and Section S.VI presents all CRPs and partial deadlocks of the S^4PR in Fig. 3 of the paper.

S.I. PROOFS OF THEORETICAL RESULTS

In this section, we prove all theoretical results.

Proof of Property 1:

In an S^4PR, since $\mathcal{N}_i=(\{p_{0i}\}\cup P_{Ai}, T_i, F_i, W_i, M_{0i})$ is a strongly connected state machine, $\forall t_i\in T_i$:

$$|{}^{\bullet}t_i\cap(P_{Ai}\cup\{p_{0i}\})|=|t_i{}^{\bullet}\cap(P_{Ai}\cup\{p_{0i}\})|=1.$$

According to Definition 5, $\forall t\in T$:

$$|{}^{\bullet}t\cap(P_A\cup\{p_0\})|=|t^{\bullet}\cap(P_A\cup\{p_0\})|=1,$$

i.e.,

$$|{}^{\bullet}t\cap P_A|\leq 1 \text{ and } |t^{\bullet}\cap P_A|\leq 1. \qquad \blacksquare$$

Proof of Property 2:

$\forall M\in R(M_0)$, $A^{T}X=M-M_0$. Hence,

$$(A^{T}X)^{T}\pi_r=(M-M_0)^{T}\pi_r,$$

i.e.,

$$X^{T}(A\pi_r)=(M-M_0)^{T}\pi_r.$$

By $A\pi_r=\mathbf{0}$,

$$(M-M_0)^{T}\pi_r=0,$$

i.e.,

$$M^{T}\pi_r=M_0{}^{T}\pi_r.$$

Thus,

$$\Sigma_{p\in\|\pi_r\|}(M(p)\pi_r(p))=\Sigma_{p\in\|\pi_r\|}(M_0(p)\pi_r(p)),$$

i.e.,

$$\Sigma_{p\in\|\pi_r\|}(M(p)\pi_r(p))=M_0(r)\pi_r(r)+\Sigma_{p'\in\Pi_r}(M_0(p')\pi_r(p')).$$

Since $\Pi_r\subseteq P_A$ and $\forall p_i\in P_A$: $M_0(p_i)=0$,

$$\Sigma_{p'\in\Pi_r}(M_0(p')\pi_r(p'))=0.$$

Hence,

$$\Sigma_{p\in\|\pi_r\|}(M(p)\pi_r(p))=M_0(r)\pi_r(r).$$

Since $\pi_r(r)=1$,

$$\Sigma_{p\in\|\pi_r\|}(M(p)\pi_r(p))=M_0(r). \qquad \blacksquare$$

S.II. *RP Detection Algorithm*

In this section, Algorithm S1 is proposed to obtain Ω. Particularly, for any activity place p_i, the method determines whether it is a critical place according to Definition 8 (line 4 of Algorithm S1). If the above is fulfilled, P_{Ri} (line 5) and $L_{i\text{-}a}$ (lines 6-9) are computed according to Definition 10. Given an S^4PR, the maximum number of input resource places for transitions is $\hat{n}=\text{Max}(\{x|\ x=|{}^{\bullet}t\cap P_R|,\ t\in T\})$, and the maximum number of output transitions for activity places is $\bar{n}=\text{Max}(\{y|\ y=|p^{\bullet}\cap T|,\ p\in P_A\})$. Hence, when executing the for-loop in lines 2-15 each time, lines 6-7 repeat at most $\bar{n}$ times, where the obtained $R_{i,j}$ has at most $\hat{n}$ elements. Hence, $b=\prod_{j\in J}|R_{i,j}|\leq\hat{n}^{\bar{n}}$. We then have that the for-loop in lines 9-12 repeat at most $\hat{n}^{\bar{n}}$ times. As a result, at most $\hat{n}^{\bar{n}}$ elements in Ω are obtained. Since there are at most $|P_A|$ critical places, the for loop in lines 2-15 is repeated no more than $|P_A|$ times. Thus, there are no more than $|P_A|\ \hat{n}^{\bar{n}}$ elements in Ω, i.e., there are at most $|P_A|\ \hat{n}^{\bar{n}}$ RPs. For an AMS modeled by an S^4PR, $\hat{n}$ represents the maximum number of resource types required for a single-step processing operation within the system, and $\bar{n}$ denotes the maximum number of parallel processes when machining the same type of part. For example, in the AMS modeled by the S^4PR in Fig. 4, the processing operation represented by t_3 requires two types of resources (r_2 and r_3), while the other operations require only one type. Hence, we have that $\hat{n}=2$. In addition, the job type represented in the left subnet allows two parallel sequential processes to process the same type of part, while the job type shown in the right subnet can only be completed by one sequential process. Hence, we obtain that $\bar{n}=2$. Notice that the number of RPs is $|P_A|\ \hat{n}^{\bar{n}}$ only if there are $\hat{n}$ input resource places for each transition and $\bar{n}$ output transitions for each activity place. In general, the number of RPs is much smaller than $|P_A|\ \hat{n}^{\bar{n}}$. For example, for the S^4PR in Fig. 4, $|P_A|=7$ and $\hat{n}=\bar{n}=2$. Hence, $|P_A|\ \hat{n}^{\bar{n}}=28$. However, from Table IV, there are only 6 RPs in this S^4PR.

Let us now estimate the time complexity of Algorithm S1. Suppose that $|T|$ and $|P_R|$ are the number of transitions and resource places, respectively. By line 5, the time complexity of obtaining P_{Ri} is $O(|P_R|)$. From lines 6-8, we have that the time complexity of finding $R_{i,j}$ is $O(|T||P_R|)$. For lines 9-12, the time complexity is $O(\hat{n}^{\bar{n}})$. For each activity place p_i, we repeat the above steps (lines 2-15). Hence, the total time complexity of Algorithm S1 is $O(|P_A|(|T||P_R|+\hat{n}^{\bar{n}}))$.

Algorithm S1: Detection of Ω

Input: S^4PR $\mathcal{N}=(P_0\cup P_A\cup P_R, T, F, W, M_0)$

Output: Ω

1 Let $\Omega=\emptyset$;

2 **For** each $p_i\in P_A$, **do**

4 **If** p_i is a critical place, **then**

5 Let $P_{Ri}=\{r|\ r\in P_R, p_i\in\|\pi_r\|\}$;

6 **For** each $t_j\in p_i{}^{\bullet}$, **do**

7 Let $R_{i,j}=\{r^w|\ r\in{}^{\bullet}t_j\cap P_R, w=W(r, t_j)-1\}$;

8 **End**

9 **For** a=1 to b, where $b=\prod_{j\in J}|R_{i,j}|$, **do**

10 Let $L_{i\text{-}a}$ be a unique set containing one element of each $R_{i,j}$, where $\forall r^w, r^{w'}\in L_{i\text{-}a}$, if $w<w'$, then $L_{i\text{-}a}=L_{i\text{-}a}\setminus\{r^{w'}\}$;

11 Let $\omega_{i\text{-}a}=<P_{Ri}, L_{i\text{-}a}>$ and $\Omega=\Omega\cup\{\omega_{i\text{-}a}\}$;

12 **End**

13 **End**

14 **End**

15 **End**

16 **Return** Ω;

17 **End**

S.III. *CRP Detection Algorithm*

In this section, Algorithm S2 is introduced to detect all CRPs. For each RP $\omega_{i\text{-}a}$ in Ω, we need to determine if there is a CRP $\hat{\Omega}$ such that $\omega_{i-a} \in \hat{\Omega}$ (lines 2-6 of Algorithm S2), where Function S1 is used to recursively determine elements in $\hat{\Omega}$. Specifically, suppose that there is a CRP $\hat{\Omega}$ such that $\omega_{i-a} \in \hat{\Omega}$. According to Theorem 4, $\hat{\Omega}$ satisfies that $\forall r \in \mathscr{R}$: $r \in \Phi$. Hence, we first initialize $\hat{\Omega}=\{\omega_{i-a}\}$. Then, we need to compute $\mathscr{R}$ and Φ and determine whether $\exists r \in \mathscr{R}$ such that $r \notin \Phi$ (lines 1 and 2 of Function S1). If $\exists r \in \mathscr{R}$ such that $r \notin \Phi$, since $\Phi=\{P_{Ri} \mid \omega_{i-a} \in \hat{\Omega}, \omega_{i-a}=<P_{Ri}, L_{i-a}>\}$, we need to find a RP $\omega_{j-c}=<P_{Rj}, L_{j-c}>$ such that $r \in P_{Rj}$ and update $\hat{\Omega}$ (lines 2-7 of Function S1); otherwise, if $\forall r \in \mathscr{R}$: $r \in \Phi$, $\hat{\Omega}$ is a CRP (lines 8-10 of Function S1). For each CRP $\hat{\Omega}$ obtained through the above process, if $\exists \omega_{z-c} \in \Omega$ and $\omega_{z-c} \notin \hat{\Omega}$: $\forall r^w \in L_{z-c}$, $r \in \Phi$, we have that $\hat{\Omega}' = \hat{\Omega} \cup \{\omega_{z-c}\}$ is a CRP (lines 7-9 of Algorithm S2 and Function S2). Hence, Function 2 is proposed to determine new CRPs by adding RPs to a obtained CRP. Then, we obtain all CRPs that contain ω_{i-a}. Subsequently, we can remove ω_{i-a} from Ω (line 11 of Algorithm S2). For each $r \in P_{Ri}$, if $\forall \omega_{j-a} \in \Omega$: $p_j \notin \|\pi_r\|$, we have that $\forall \hat{\Omega}'' \subseteq \Omega$: $r \notin \{P_{Rk} \mid \omega_{k-c} \in \hat{\Omega}'', \omega_{k-c}=<P_{Rk}, L_{k-c}>\}$. For each $\omega_{u-c} \in \Omega$, if $r \in \{r' \mid r'^w \in L_{u-c}, \omega_{u-c}=<P_{Ru}, L_{u-c}>\}$, according to Theorem 4, there is no CRP containing ω_{u-c}. Thus, Function S3 is given to remove ω_{u-c} from Ω, thereby reducing the computational complexity of detecting CRPs. For each RP, we repeat the above process, all CRPs can be obtained (lines 1-4 of Algorithm S2). Θ_{i-a} represents the set of CRPs that contains ω_{i-a}, where the number of elements in Θ_{i-a} is no more than $|\Omega|$-1, where $|\Omega|$ is the number of elements in Ω. From line 10 of Algorithm S2,

$$\Theta = \cup_{\omega_{i-a} \in \Omega} \Theta_{i-a}.$$

Since there are at most $|\Omega|$ elements in Ω, the number of CRPs is no greater than $|\Omega|(|\Omega|-1)$. According to Algorithm S1, $|\Omega| \leq |P_A| \hat{n}^{\overline{n}}$.

Algorithm S2: Detection of Θ
Input: Ω
Output: Θ
1 Let $\Theta=\emptyset$;
2 **For** $\forall \omega_{i-a} \in \Omega$, where $\omega_{i-a}=<P_{Ri}, L_{i-a}>$, **do**
3 Let $\Theta'=\{\{\omega_{i-a}\}\}$ and $\Theta_{i-a}=\emptyset$;
4 **For** each $\hat{\Omega} \in \Theta'$, **do**
5 $[\Theta_{i-a}, \Theta']=F_{s1}(\hat{\Omega}, \Omega, \Theta', \Theta_{i-a})$;
6 **End**
7 **For** each $\hat{\Omega} \in \Theta_{i-a}$, **do**
8 $[\Theta_{i-a}]=F_{s2}(\hat{\Omega}, \Theta_{i-a}, \Omega)$;
9 **End**
10 $\Theta=\Theta \cup \Theta_{i-a}$;
11 $\Omega=\Omega \backslash \{\omega_{i-a}\}$;
12 $[\Omega]=F_{s3}(P_{Ri}, \Omega, P_A)$
13 **End**
14 **Return** Θ
15 **End**

Function S1: $[\Theta_{i-a}, \Theta']=F_{s1}(\hat{\Omega}, \Omega, \Theta', \Theta_{i-a})$
Input: $\hat{\Omega}$, Ω, Θ', Θ_{i-a}
Output: Θ_{i-a}, Θ'
1 Let $\mathscr{R}=\{r \mid r^w \in L_{k-a}, \omega_{k-a} \in \hat{\Omega}, \omega_{k-a}=<P_{Rk}, L_{k-a}>\}$, $\Phi=\{r \mid r \in P_{Rk}, \omega_{k-a} \in \hat{\Omega}, \omega_{k-a}=<P_{Rk}, L_{k-a}>\}$, $\Omega'=\Omega \backslash \{\hat{\Omega}\}$, and $\Theta'=\Theta' \backslash \{\hat{\Omega}\}$;
2 **If** $\exists r \in \mathscr{R} \backslash \Phi$, **then**
3 **For** each ω_{j-c} in Ω', where $\omega_{j-c}=<P_{Rj}, L_{j-c}>$, **do**
4 **If** $r \in P_{Rj}$, **then**
5 $\hat{\Omega}'=\hat{\Omega} \cup \{\omega_{j-c}\}$ and $\Theta'=\Theta' \cup \{\hat{\Omega}'\}$;
6 **End**
7 **End**
8 **Else**
9 $\Theta_{i-a}=\Theta_{i-a} \cup \{\hat{\Omega}\}$;
10 **End**
11 **Return** Θ_{i-a} and Θ';
12 **End**

Function S2: $[\Theta_{i-a}]=F_{s2}(\hat{\Omega}, \Theta_{i-a}, \Omega)$
Input: $\hat{\Omega}$, Θ_{i-a}, Ω
Output: Θ_{i-a}
1 Let $\Phi=\{r \mid r \in P_{Rk}, \omega_{k-a} \in \hat{\Omega}, \omega_{k-a}=<P_{Rk}, L_{k-a}>\}$ and $P_K=\{p_k \mid \omega_{k-a} \in \hat{\Omega}\}$;
2 **For** each $\omega_{z-c} \in \Omega \backslash \hat{\Omega}$, **do**
3 **If** $\forall r^w \in L_{z-c}$: $r \in \Phi$ and $p_z \notin P_K$, **then**
4 Let $\hat{\Omega}'=\hat{\Omega} \cup \{\omega_{z-c}\}$ and $\Theta_{i-a}=\Theta_{i-a} \cup \hat{\Omega}'$;
5 **End**
6 **End**
7 **Return** Θ_{i-a};
8 **End**

Function S3: $[\Omega]=F_{s3}(P_{Ri}, \Omega, P_A)$
Input: P_{Ri}, Ω, P_A
Output: Ω
1 **For** each $r \in P_{Ri}$, **do**
2 **If** $\forall \omega_{j-a} \in \Omega$: $p_j \notin \|\pi_r\|$, **then**
3 **For** each $\omega_{u-c} \in \Omega$, where $r \in \{r \mid r^w \in L_{u-c}, \omega_{u-c}=<P_{Ru}, L_{u-c}>\}$, **do**
4 $\Omega=\Omega \backslash \{\omega_{u-c}\}$;
5 **End**
6 **End**
7 **End**
8 **Return** Ω;
9 **End**

Next, we evaluate the time complexity of Algorithm S2. From line 1 of Function S1, $\Omega'=\Omega \backslash \{\hat{\Omega}\}$, i.e., $|\Omega'| \leq |\Omega|$. Hence, the time complexity of Function S1 is $O(|\Omega|)$. In the worst case, $\forall \omega_{j-a}, \omega_{k-c} \in \Omega$: $\hat{\Omega}=\{\omega_{j-a}, \omega_{k-c}\}$ is a CRP. In this case, Function S1 needs to be repeated $|\Omega|$ times and there are $|\Omega|$-1 elements in Θ_{i-a}. Thus, the complexity of lines 4-6 of Algorithm S2 is $O(|\Omega|^2)$. According to line 2 of Function S2, $\omega_{z-a} \in \Omega \backslash \hat{\Omega}$. Hence, the time complexity of Function S2 is $O(|\Omega|)$. Since there $|\Omega|$-1 elements in Θ_{i-a}, the time complexity of lines 7-9 of Algorithm S2 is $O(|\Omega|^2)$. For Function S3, since $P_{Ri} \subseteq P_R$ and $\omega_{u-c} \in \Omega$, the time complexity of Function S3 is $O(|P_R||\Omega|)$. Thus, the time complexity of lines 3-12 of Algorithm S2 is $O(|\Omega|^2+|P_R||\Omega|)$. From lines 2-13, the above steps need to be repeated $|\Omega|$ times. Hence, the total time complexity of Algorithm S2 is $O(|\Omega|^3+|P_R||\Omega|^2)$.

S.IV. CRPs and Partial Deadlocks of S^{4}PR in Fig. 3

Table S1 shows all the partial deadlocks and CRPs of the S^{4}PR shown in Fig. 3 of this paper.

Table S1

CRPs and Partial Deadlocks of S^4PR in Fig. 3.

CRPs	**Partial deadlocks**
$\hat{\Omega}_1=\{\omega_{1-1}, \omega_{15-1}\}$	$M_1=p_1+9p_8+10p_{12}+2p_{15}+8p_{20}+3p_{22}+p_{23}+3p_{24}+3p_{25}$
$\hat{\Omega}_2=\{\omega_{1-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_2=p_1+9p_8+10p_{12}+p_{14}+2p_{15}+7p_{20}+p_{22}+p_{23}+2p_{24}+3p_{25}$
$\hat{\Omega}_3=\{\omega_{1-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_4=\{\omega_{1-1}, \omega_{2-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_5=\{\omega_{1-1}, \omega_{3-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_3=p_1+p_3+8p_8+10p_{12}+p_{14}+2p_{15}+7p_{20}+p_{22}+p_{23}+p_{24}+3p_{25}$
	$M_4=p_1+2p_3+7p_8+10p_{12}+p_{14}+2p_{15}+7p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_6=\{\omega_{1-1}, \omega_{6-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_7=\{\omega_{1-1}, \omega_{7-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_5=p_1+2p_7+7p_8+10p_{12}+p_{14}+2p_{15}+7p_{20}+p_{22}+p_{23}+3p_{25}$
	$M_6=p_1+p_7+8p_8+10p_{12}+p_{14}+2p_{15}+7p_{20}+p_{22}+p_{23}+p_{24}+3p_{25}$
$\hat{\Omega}_8=\{\omega_{1-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_9=\{\omega_{1-1}, \omega_{13-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{10}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_7=p_1+2p_3+p_6+6p_8+10p_{12}+p_{14}+p_{15}+8p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{11}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_8=p_1+p_3+p_6+p_7+6p_8+10p_{12}+p_{14}+p_{15}+8p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{12}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_9=p_1+p_3+p_6+p_7+6p_8+p_{10}+9p_{12}+p_{14}+p_{15}+8p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{13}=\{\omega_{1-1}, \omega_{3-1}, \omega_{4-2}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{14}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{15}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{16}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{17}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{14-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{18}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_{10}=p_1+2p_3+p_6+6p_8+p_{10}+9p_{12}+p_{14}+p_{15}+8p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{19}=\{\omega_{1-1}, \omega_{3-1}, \omega_{4-2}, \omega_{6-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{20}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{13-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{21}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{22}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{13-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{21}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{24}=\{\omega_{1-1}, \omega_{3-1}, \omega_{7-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_{11}=p_1+p_3+p_7+7p_8+10p_{12}+p_{14}+2p_{15}+7p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{25}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_{12}=p_1+p_2+p_3+p_7+6p_8+10p_{12}+p_{14}+p_{15}+8p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{26}=\{\omega_{1-1}, \omega_{3-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_{13}=p_1+p_3+p_7+7p_8+p_{10}+9p_{12}+p_{14}+2p_{15}+7p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{27}=\{\omega_{1-1}, \omega_{3-1}, \omega_{4-2}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{28}=\{\omega_{1-1}, \omega_{3-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{29}=\{\omega_{1-1}, \omega_{3-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{30}=\{\omega_{1-1}, \omega_{3-1}, \omega_{7-1}, \omega_{13-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{31}=\{\omega_{1-1}, \omega_{3-1}, \omega_{7-1}, \omega_{14-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{32}=\{\omega_{1-1}, \omega_{3-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_{14}=p_1+2p_3+7p_8+p_{10}+9p_{12}+p_{14}+2p_{15}+7p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{33}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_{15}=p_1+p_2+2p_3+6p_8+p_{10}+9p_{12}+p_{14}+p_{15}+8p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{34}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_{16}=p_1+p_2+p_3+p_7+6p_8+p_{10}+9p_{12}+p_{14}+p_{15}+8p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{35}=\{\omega_{1-1}, \omega_{3-1}, \omega_{4-2}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{36}=\{\omega_{1-1}, \omega_{3-1}, \omega_{10-1}, \omega_{13-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{37}=\{\omega_{1-1}, \omega_{3-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{38}=\{\omega_{1-1}, \omega_{3-1}, \omega_{13-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{39}=\{\omega_{1-1}, \omega_{3-1}, \omega_{14-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{40}=\{\omega_{1-1}, \omega_{6-1}, \omega_{7-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_{17}=p_1+p_6+2p_7+6p_8+10p_{12}+p_{14}+p_{15}+8p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{41}=\{\omega_{1-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_{18}=p_1+p_6+2p_7+6p_8+p_{10}+9p_{12}+p_{14}+p_{15}+8p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{42}=\{\omega_{1-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_{19}=p_1+2p_7+7p_8+p_{10}+9p_{12}+p_{14}+2p_{15}+7p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{43}=\{\omega_{1-1}, \omega_{2-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_{20}=p_1+p_2+2p_7+6p_8+p_{10}+9p_{12}+p_{14}+p_{15}+8p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{44}=\{\omega_{1-1}, \omega_{4-2}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{45}=\{\omega_{1-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{46}=\{\omega_{1-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{47}=\{\omega_{1-1}, \omega_{7-1}, \omega_{13-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{48}=\{\omega_{1-1}, \omega_{7-1}, \omega_{14-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{49}=\{\omega_{1-1}, \omega_{10-1}, \omega_{13-1}, \omega_{14-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{50}=\{\omega_{1-1}, \omega_{10-1}, \omega_{14-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{51}=\{\omega_{1-1}, \omega_{2-1}, \omega_{14-1}\}$	
$\hat{\Omega}_{52}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{4-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{53}=\{\omega_{1-1}, \omega_{2-1}, \omega_{4-1}, \omega_{7-1}, \omega_{13-1}\}$	

$\hat{\Omega}_{54}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{4-2}, \omega_{10-1}\}$	
$\hat{\Omega}_{55}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{13-1}\}$	$M_{21}=p_1+2p_2+3p_3+4p_8+10p_{12}+p_{13}+9p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{56}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{13-1}\}$	$M_{22}=p_1+p_2+3p_3+p_6+4p_8+10p_{12}+p_{13}+9p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{57}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}\}$	$M_{23}=p_1+p_2+p_3+p_6+2p_7+4p_8+10p_{12}+p_{13}+9p_{20}+p_{22}+3p_{25}$
	$M_{24}=p_1+p_2+2p_3+p_6+p_7+4p_8+10p_{12}+p_{13}+9p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{58}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{25}=p_1+p_2+p_3+p_6+2p_7+4p_8+p_{10}+9p_{12}+p_{13}+9p_{20}+p_{22}+p_{25}$
	$M_{26}=p_1+p_2+2p_3+p_6+p_7+4p_8+p_{10}+9p_{12}+p_{13}+9p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{59}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{60}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{61}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{62}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{63}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{27}=p_1+p_2+3p_3+p_6+4p_8+p_{10}+9p_{12}+p_{13}+9p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{64}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{13-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{65}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{66}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{13-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{67}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{68}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{13-1}\}$	$M_{28}=p_1+2p_2+2p_3+p_7+4p_8+10p_{12}+p_{13}+9p_{20}+p_{22}+3p_{25}$
	$M_{29}=p_1+2p_2+p_3+2p_7+4p_8+10p_{12}+p_{13}+9p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{69}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{30}=p_1+2p_2+p_3+2p_7+4p_8+p_{10}+9p_{12}+p_{13}+9p_{20}+p_{22}+p_{25}$
	$M_{31}=p_1+2p_2+2p_3+p_7+4p_8+p_{10}+9p_{12}+p_{13}+9p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{70}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{15-1}\}$	$M_{32}=p_1+p_2+p_3+2p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+p_{25}$
	$M_{33}=p_1+p_2+2p_3+p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{71}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{72}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{73}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{13-1}, \omega_{15-1}\}$	$M_{34}=p_1+p_2+p_3+2p_7+5p_8+10p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+3p_{25}$
	$M_{35}=p_1+p_2+2p_3+p_7+5p_8+10p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{74}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{13-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{75}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{76}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{36}=p_1+2p_2+3p_3+4p_8+p_{10}+9p_{12}+p_{13}+9p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{77}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{10-1}, \omega_{13-1}, \omega_{15-1}\}$	$M_{37}=p_1+p_2+3p_3+5p_8+p_{10}+9p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{78}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1},\omega_{10-1}, \omega_{13-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{79}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{10-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{80}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{13-1}, \omega_{15-1}\}$	$M_{38}=p_1+p_2+3p_3+5p_8+10p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{81}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{13-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{82}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{83}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{14-1}\}$	$M_{39}=p_1+2p_2+2p_3+5p_8+10p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{84}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{14-1}\}$	$M_{40}=p_1+p_2+2p_3+p_6+5p_8+10p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{85}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{14-1}\}$	$M_{41}=p_1+p_2+p_3+p_6+p_7+5p_8+10p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{86}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{42}=p_1+p_2+p_3+p_6+p_7+5p_8+p_{10}+9p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{87}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{43}=p_1+p_2+2p_3+p_6+5p_8+p_{10}+9p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{88}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{14-1}\}$	$M_{44}=p_1+2p_2+p_3+p_7+5p_8+10p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{89}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{45}=p_1+2p_2+2p_3+5p_8+p_{10}+9p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{90}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_{46}=p_1+p_2+2p_3+6p_8+10p_{12}+p_{14}+p_{15}+8p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{91}=\{\omega_{1-1}, \omega_{2-1}, \omega_{4-2}, \omega_{7-1}, \omega_{10-1}\}$	
$\hat{\Omega}_{92}=\{\omega_{1-1}, \omega_{2-1}, \omega_{7-1}, \omega_{13-1}\}$	$M_{47}=p_1+2p_2+3p_7+4p_8+10p_{12}+p_{13}+9p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{93}=\{\omega_{1-1}, \omega_{2-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}\}$	$M_{48}=p_1+p_2+p_6+3p_7+4p_8+10p_{12}+p_{13}+9p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{94}=\{\omega_{1-1}, \omega_{2-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{49}=p_1+p_2+p_6+3p_7+4p_8+p_{10}+9p_{12}+p_{13}+9p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{95}=\{\omega_{1-1}, \omega_{2-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{96}=\{\omega_{1-1}, \omega_{2-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{97}=\{\omega_{1-1}, \omega_{2-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}, \omega_{15-1}\}$	
$\hat{\Omega}_{98}=\{\omega_{1-1}, \omega_{2-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{99}=\{\omega_{1-1}, \omega_{2-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{50}=p_1+2p_2+3p_7+4p_8+p_{10}+9p_{12}+p_{13}+9p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{100}=\{\omega_{1-1},\omega_{2-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{15-1}\}$	$M_{51}=p_1+p_2+3p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{101}=\{\omega_{1-1}, \omega_{2-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{102}=\{\omega_{1-1}, \omega_{2-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{103}=\{\omega_{1-1}, \omega_{2-1}, \omega_{7-1}, \omega_{13-1}, \omega_{15-1}\}$	$M_{52}=p_1+p_2+3p_7+5p_8+10p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{104}=\{\omega_{1-1}, \omega_{2-1}, \omega_{7-1}, \omega_{13-1}, \omega_{15-1}, \omega_{16-1}\}$	

$\hat{\Omega}_{105}=\{\omega_{1-1}, \omega_{2-1}, \omega_{7-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{106}=\{\omega_{1-1}, \omega_{2-1}, \omega_{7-1}, \omega_{14-1}\}$	$M_{53}=p_1+2p_2+2p_7+5p_8+10p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{107}=\{\omega_{1-1}, \omega_{2-1}, \omega_{6-1}, \omega_{7-1}, \omega_{14-1}\}$	$M_{54}=p_1+p_2+p_6+2p_7+5p_8+10p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{108}=\{\omega_{1-1}, \omega_{2-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{55}=p_1+p_2+p_6+2p_7+5p_8+p_{10}+9p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{109}=\{\omega_{1-1}, \omega_{2-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{56}=p_1+2p_2+2p_7+5p_8+p_{10}+9p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{110}=\{\omega_{1-1}, \omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{57}=p_1+2p_2+p_3+p_7+5p_8+p_{10}+9p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{111}=\{\omega_{1-1}, \omega_{2-1}, \omega_{7-1}, \omega_{14-1}, \omega_{15-1}\}$	$M_{58}=p_1+p_2+2p_7+6p_8+10p_{12}+p_{14}+p_{15}+8p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{112}=\{\omega_{1-1}, \omega_{6-1}, \omega_{14-1}\}$	
$\hat{\Omega}_{113}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{14-1}\}$	$M_{59}=p_1+2p_3+2p_6+5p_8+10p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{114}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{14-1}\}$	$M_{60}=p_1+p_3+2p_6+p_7+5p_8+10p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{115}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{61}=p_1+p_3+2p_6+p_7+5p_8+p_{10}+9p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{116}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{62}=p_1+2p_3+2p_6+5p_8+p_{10}+9p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{117}=\{\omega_{1-1}, \omega_{6-1}, \omega_{7-1}, \omega_{14-1}\}$	$M_{63}=p_1+2p_6+2p_7+5p_8+10p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{118}=\{\omega_{1-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{64}=p_1+2p_6+2p_7+5p_8+p_{10}+9p_{12}+p_{14}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{119}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{13-1}\}$	$M_{65}=p_1+3p_3+2p_6+4p_8+10p_{12}+p_{13}+9p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{120}=\{\omega_{1-1}, \omega_{3-1}, \omega_{4-1}, \omega_{6-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{121}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}\}$	$M_{66}=p_1+2p_3+2p_6+p_7+4p_8+10p_{12}+p_{13}+9p_{20}+p_{22}+3p_{25}$
	$M_{67}=p_1+p_3+2p_6+2p_7+4p_8+10p_{12}+p_{13}+9p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{122}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{68}=p_1+3p_3+2p_6+4p_8+p_{10}+9p_{12}+p_{13}+9p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{123}=\{\omega_{1-1}, \omega_{3-1}, \omega_{4-2}, \omega_{6-1}, \omega_{10-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{124}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{69}=p_1+2p_3+2p_6+p_7+4p_8+p_{10}+9p_{12}+p_{13}+9p_{20}+p_{22}+p_{25}$
	$M_{70}=p_1+p_3+2p_6+2p_7+4p_8+p_{10}+9p_{12}+p_{13}+9p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{125}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{15-1}\}$	$M_{71}=p_1+2p_3+p_6+p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+p_{25}$
	$M_{72}=p_1+p_3+p_6+2p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{126}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{13-1}, \omega_{15-1}\}$	$M_{73}=p_1+3p_3+p_6+5p_8+p_{10}+9p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{127}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{13-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{128}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{129}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{13-1}, \omega_{15-1}\}$	$M_{74}=p_1+3p_3+p_6+5p_8+10p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{130}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}, \omega_{15-1}\}$	$M_{75}=p_1+2p_3+p_6+p_7+5p_8+10p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+3p_{25}$
	$M_{76}=p_1+p_3+p_6+2p_7+5p_8+10p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{131}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{13-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{132}=\{\omega_{1-1}, \omega_{3-1}, \omega_{6-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{133}=\{\omega_{1-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}\}$	$M_{77}=p_1+2p_6+3p_7+4p_8+10p_{12}+p_{13}+9p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{134}=\{\omega_{1-1}, \omega_{4-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{135}=\{\omega_{1-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{78}=p_1+2p_6+3p_7+4p_8+p_{10}+9p_{12}+p_{13}+9p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{136}=\{\omega_{1-1}, \omega_{4-2}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{137}=\{\omega_{1-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{15-1}\}$	$M_{79}=p_1+p_6+3p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{138}=\{\omega_{1-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{139}=\{\omega_{1-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{140}=\{\omega_{1-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}, \omega_{15-1}\}$	$M_{80}=p_1+p_6+3p_7+5p_8+10p_{12}+p_{13}+p_{15}+8p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{141}=\{\omega_{1-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}, \omega_{15-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{142}=\{\omega_{1-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}, \omega_{16-1}\}$	
$\hat{\Omega}_{143}=\{\omega_{1-1}, \omega_{3-1}, \omega_{4-2}, \omega_{6-1}, \omega_{10-1}\}$	
$\hat{\Omega}_{144}=\{\omega_{1-1}, \omega_{4-2}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}\}$	
$\hat{\Omega}_{145}=\{\omega_{2-1}, \omega_{14-1}\}$	
$\hat{\Omega}_{146}=\{\omega_{2-1}, \omega_{3-1}, \omega_{14-1}\}$	$M_{81}=2p_2+2p_3+6p_8+10p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{147}=\{\omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{14-1}\}$	$M_{82}=p_2+2p_3+p_6+6p_8+10p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{148}=\{\omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{14-1}\}$	$M_{83}=p_2+p_3+p_6+p_7+6p_8+10p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{149}=\{\omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{84}=p_2+p_3+p_6+p_7+6p_8+p_{10}+9p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{150}=\{\omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{85}=p_2+2p_3+p_6+6p_8+p_{10}+9p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{151}=\{\omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{14-1}\}$	$M_{86}=2p_2+p_3+p_7+6p_8+10p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{152}=\{\omega_{2-1}, \omega_{3-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{87}=2p_2+2p_3+6p_8+p_{10}+9p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{153}=\{\omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{88}=2p_2+p_3+p_7+6p_8+p_{10}+9p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{154}=\{\omega_{2-1}, \omega_{7-1}, \omega_{14-1}\}$	$M_{89}=2p_2+2p_7+6p_8+10p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{155}=\{\omega_{2-1}, \omega_{6-1}, \omega_{7-1}, \omega_{14-1}\}$	$M_{90}=p_2+p_6+2p_7+6p_8+10p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{156}=\{\omega_{2-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{91}=p_2+p_6+2p_7+6p_8+p_{10}+9p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{157}=\{\omega_{2-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{92}=2p_2+2p_7+6p_8+p_{10}+9p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+p_{25}$

$\hat{\Omega}_{158}=\{\omega_{2-1}, \omega_{3-1}, \omega_{13-1}\}$	$M_{93}=2p_2+3p_3+5p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+3p_{25}$
	$M_{94}=p_2+3p_3+6p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+3p_{25}$
$\hat{\Omega}_{159}=\{\omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{13-1}\}$	$M_{95}=p_2+3p_3+p_6+5p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{160}=\{\omega_{2-1}, \omega_{3-1}, \omega_{4-1}, \omega_{6-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{161}=\{\omega_{2-1}, \omega_{3-1}, \omega_{4-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{162}=\{\omega_{2-1}, \omega_{3-1}, \omega_{4-1}, \omega_{6-1}, \omega_{10-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{163}=\{\omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}\}$	$M_{96}=p_2+2p_3+p_6+p_7+5p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+3p_{25}$
	$M_{97}=p_2+p_3+p_6+2p_7+5p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{164}=\{\omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{98}=p_2+2p_3+p_6+p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{25}$
	$M_{99}=p_2+p_3+p_6+2p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{165}=\{\omega_{2-1}, \omega_{3-1}, \omega_{4-2}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{166}=\{\omega_{2-1}, \omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{100}=p_2+3p_3+p_6+5p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{167}=\{\omega_{2-1}, \omega_{3-1}, \omega_{4-2}, \omega_{6-1}, \omega_{10-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{168}=\{\omega_{2-1}, \omega_{3-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{101}=2p_2+3p_3+5p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{25}$
	$M_{102}=p_2+3p_3+6p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+p_{25}$
$\hat{\Omega}_{169}=\{\omega_{2-1}, \omega_{3-1}, \omega_{4-1}, \omega_{10-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{170}=\{\omega_{2-1}, \omega_{3-1}, \omega_{4-2}, \omega_{10-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{171}=\{\omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{103}=2p_2+2p_3+p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{25}$
	$M_{104}=2p_2+p_3+2p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{25}$
	$M_{105}=p_2+2p_3+p_7+6p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+p_{25}$
	$M_{106}=p_2+p_3+2p_7+6p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+p_{25}$
$\hat{\Omega}_{172}=\{\omega_{2-1}, \omega_{3-1}, \omega_{4-2}, \omega_{10-1}\}$	
$\hat{\Omega}_{173}=\{\omega_{2-1}, \omega_{3-1}, \omega_{4-2}, \omega_{6-1}, \omega_{10-1}\}$	
$\hat{\Omega}_{174}=\{\omega_{2-1}, \omega_{3-1}, \omega_{4-2}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}\}$	
$\hat{\Omega}_{175}=\{\omega_{2-1}, \omega_{3-1}, \omega_{4-2}, \omega_{7-1}, \omega_{10-1}\}$	
$\hat{\Omega}_{176}=\{\omega_{2-1}, \omega_{4-2}, \omega_{7-1}, \omega_{10-1}\}$	
$\hat{\Omega}_{177}=\{\omega_{2-1}, \omega_{7-1}, \omega_{13-1}\}$	$M_{107}=2p_2+3p_7+5p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+3p_{25}$
	$M_{108}=p_2+3p_7+6p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+3p_{25}$
$\hat{\Omega}_{178}=\{\omega_{2-1}, \omega_{3-1}, \omega_{7-1}, \omega_{13-1}\}$	$M_{109}=2p_2+p_3+2p_7+5p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+3p_{25}$
	$M_{110}=2p_2+2p_3+p_7+5p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+3p_{25}$
	$M_{111}=p_2+p_3+2p_7+6p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+3p_{25}$
	$M_{112}=p_2+2p_3+p_7+6p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+3p_{25}$
$\hat{\Omega}_{179}=\{\omega_{2-1}, \omega_{3-1}, \omega_{4-1}, \omega_{7-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{180}=\{\omega_{2-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}\}$	$M_{113}=p_2+p_6+3p_7+5p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+3p_{25}$
$\hat{\Omega}_{181}=\{\omega_{2-1}, \omega_{4-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{182}=\{\omega_{2-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{114}=p_2+p_6+3p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{25}$
$\hat{\Omega}_{183}=\{\omega_{2-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{115}=2p_2+3p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{25}$
	$M_{116}=p_2+3p_7+6p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+p_{25}$
$\hat{\Omega}_{184}=\{\omega_{2-1}, \omega_{3-1}, \omega_{4-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{185}=\{\omega_{2-1}, \omega_{4-1}, \omega_{7-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{186}=\{\omega_{6-1}, \omega_{14-1}\}$	
$\hat{\Omega}_{187}=\{\omega_{3-1}, \omega_{6-1}, \omega_{14-1}\}$	$M_{117}=2p_3+2p_6+6p_8+10p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{188}=\{\omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{14-1}\}$	$M_{118}=p_3+2p_6+p_7+6p_8+10p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{189}=\{\omega_{3-1}, \omega_{6-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{119}=2p_3+2p_6+6p_8+p_{10}+9p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{190}=\{\omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{120}=p_3+2p_6+p_7+6p_8+p_{10}+9p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{191}=\{\omega_{6-1}, \omega_{7-1}, \omega_{14-1}\}$	$M_{121}=2p_6+2p_7+6p_8+10p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+3p_{25}$
$\hat{\Omega}_{192}=\{\omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{14-1}\}$	$M_{122}=2p_6+2p_7+6p_8+p_{10}+9p_{12}+p_{14}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{23}+p_{25}$
$\hat{\Omega}_{193}=\{\omega_{3-1}, \omega_{6-1}, \omega_{13-1}\}$	$M_{123}=3p_3+2p_6+5p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+3p_{25}$
	$M_{124}=3p_3+p_6+6p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+3p_{25}$
$\hat{\Omega}_{194}=\{\omega_{3-1}, \omega_{4-1}, \omega_{6-1}, \omega_{13-1}\}$	
$\hat{\Omega}_{195}=\{\omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{13-1}\}$	$M_{125}=2p_3+2p_6+p_7+5p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+3p_{25}$
	$M_{126}=p_3+2p_6+2p_7+5p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+3p_{25}$
	$M_{127}=2p_3+p_6+p_7+6p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+3p_{25}$
	$M_{128}=p_3+p_6+2p_7+6p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+3p_{25}$
$\hat{\Omega}_{196}=\{\omega_{3-1}, \omega_{6-1}, \omega_{7-1}, \omega_{10-1}, \omega_{13-1}\}$	$M_{129}=2p_3+2p_6+p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{25}$
	$M_{130}=p_3+2p_6+2p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{25}$
	$M_{131}=2p_3+p_6+p_7+6p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+p_{25}$

	$M_{132}=p_3+p_6+2p_7+6p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+p_{25}$
$\hat{\Omega}_{197}=\{\omega_{3\text{-}1}, \omega_{4\text{-}2}, \omega_{6\text{-}1}, \omega_{7\text{-}1}, \omega_{10\text{-}1}, \omega_{13\text{-}1}\}$	
$\hat{\Omega}_{198}=\{\omega_{3\text{-}1}, \omega_{6\text{-}1}, \omega_{10\text{-}1}, \omega_{13\text{-}1}\}$	$M_{133}=3p_3+2p_6+5p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{25}$
	$M_{134}=3p_3+p_6+6p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+p_{25}$
$\hat{\Omega}_{199}=\{\omega_{3\text{-}1}, \omega_{4\text{-}2}, \omega_{6\text{-}1}, \omega_{10\text{-}1}, \omega_{13\text{-}1}\}$	
$\hat{\Omega}_{200}=\{\omega_{6\text{-}1}, \omega_{7\text{-}1}, \omega_{13\text{-}1}\}$	$M_{135}=2p_6+3p_7+5p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+3p_{25}$
	$M_{136}=p_6+3p_7+6p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+3p_{25}$
$\hat{\Omega}_{201}=\{\omega_{6\text{-}1}, \omega_{7\text{-}1}, \omega_{10\text{-}1}, \omega_{13\text{-}1}\}$	$M_{137}=2p_6+3p_7+5p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{22}+p_{25}$
	$M_{138}=p_6+3p_7+6p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+p_{21}+p_{22}+p_{25}$
$\hat{\Omega}_{202}=\{\omega_{4\text{-}1}, \omega_{6\text{-}1}, \omega_{7\text{-}1}, \omega_{10\text{-}1}, \omega_{13\text{-}1}\}$	
$\hat{\Omega}_{203}=\{\omega_{4\text{-}2}, \omega_{6\text{-}1}, \omega_{7\text{-}1}, \omega_{10\text{-}1}, \omega_{13\text{-}1}\}$	
$\hat{\Omega}_{204}=\{\omega_{4\text{-}1}, \omega_{6\text{-}1}, \omega_{7\text{-}1}, \omega_{13\text{-}1}\}$	
$\hat{\Omega}_{205}=\{\omega_{3\text{-}1}, \omega_{4\text{-}2}, \omega_{6\text{-}1}, \omega_{10\text{-}1}\}$	
$\hat{\Omega}_{206}=\{\omega_{4\text{-}2}, \omega_{6\text{-}1}, \omega_{7\text{-}1}, \omega_{10\text{-}1}\}$	
$\hat{\Omega}_{207}=\{\omega_{3\text{-}1}, \omega_{4\text{-}1}, \omega_{13\text{-}1}\}$	
$\hat{\Omega}_{208}=\{\omega_{3\text{-}1}, \omega_{4\text{-}2}, \omega_{10\text{-}1}\}$	
$\hat{\Omega}_{209}=\{\omega_{3\text{-}1}, \omega_{13\text{-}1}\}$	$M_{139}=3p_3+7p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+2p_{21}+p_{22}+3p_{25}$
$\hat{\Omega}_{210}=\{\omega_{3\text{-}1}, \omega_{7\text{-}1}, \omega_{13\text{-}1}\}$	$M_{140}=2p_3+p_7+7p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+2p_{21}+p_{22}+3p_{25}$
	$M_{141}=p_3+2p_7+7p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+2p_{21}+p_{22}+3p_{25}$
$\hat{\Omega}_{211}=\{\omega_{3\text{-}1}, \omega_{7\text{-}1}, \omega_{10\text{-}1}, \omega_{13\text{-}1}\}$	$M_{142}=2p_3+p_7+7p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+2p_{21}+p_{22}+p_{25}$
	$M_{143}=p_3+2p_7+7p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+2p_{21}+p_{22}+p_{25}$
$\hat{\Omega}_{212}=\{\omega_{3\text{-}1}, \omega_{10\text{-}1}, \omega_{13\text{-}1}\}$	$M_{144}=3p_3+7p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+2p_{21}+p_{22}+p_{25}$
$\hat{\Omega}_{213}=\{\omega_{4\text{-}1}, \omega_{7\text{-}1}, \omega_{13\text{-}1}\}$	
$\hat{\Omega}_{214}=\{\omega_{4\text{-}2},\omega_{7\text{-}1}, \omega_{10\text{-}1}\}$	
$\hat{\Omega}_{215}=\{\omega_{7\text{-}1}, \omega_{13\text{-}1}\}$	$M_{145}=3p_7+7p_8+10p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+2p_{21}+p_{22}+3p_{25}$
$\hat{\Omega}_{216}=\{\omega_{7\text{-}1}, \omega_{10\text{-}1}, \omega_{13\text{-}1}\}$	$M_{146}=3p_7+7p_8+p_{10}+9p_{12}+p_{13}+p_{18}+p_{19}+9p_{20}+2p_{21}+p_{22}+p_{25}$