1. e-EXPRESSIONS

$$\begin{aligned} &\mathcal{E}_{13}[1+q,x]=1\otimes e_3,\\ &\mathcal{E}_{23}[1+q,x]=s_1\otimes s_3+1\otimes e_{21},\\ &\mathcal{E}_{33}[1+q,x]=(s_{11}+s_3)\otimes e_3+(2s_1+s_2)\otimes e_{21}+1\otimes e_{111},\\ &\mathcal{E}_{33}[1+q,x]=(s_{21}+s_4)\otimes s_3+(s_1+s_1)+2s_2+s_3)\otimes e_{21}+(1+s_1)\otimes e_{111},\\ &\mathcal{E}_{63}[1+q,x]=(s_{22}+s_{41}+s_6)\otimes e_3+(2s_2+2s_{21}+s_3+s_{31}+2s_4+s_5)\otimes e_{21}\\ &+(1+2s_1+s_{11}+s_2+s_3)\otimes e_{111},\\ &\mathcal{E}_{63}[1+q,x]=(s_{32}+s_{51}+s_7)\otimes e_3+(s_2+s_{21}+s_{22}+2s_3+2s_{31}+s_4+s_4)+2s_5+s_6)\otimes e_{21}\\ &+(1+2s_1+s_{11}+2s_2+s_{21}+s_3+s_4)\otimes e_{111},\\ &\mathcal{E}_{14}[1+q,x]=1\otimes e_4,\\ &\mathcal{E}_{24}[1+q,x]=(s_2)\otimes e_4+(s_1)\otimes e_{31}+1\otimes e_{22},\\ &\mathcal{E}_{34}[1+q,x]=(s_{11}+s_3)\otimes e_4+(s_1+s_2)\otimes e_{31}+(s_1)\otimes e_{22}+1\otimes e_{211},\\ &\mathcal{E}_{44}[1+q,x]=(s_{111}+s_3)+s_{41}+s_6)\otimes e_4\\ &+(2s_{11}+s_{21}+2s_3+s_{31}+s_4+s_5)\otimes e_{31}\\ &+(s_{11}+s_2+s_{21}+s_4)\otimes e_{22}+(3s_1+2s_2+s_3)\otimes e_{211}+1\otimes e_{1111},\\ &\mathcal{E}_{64}[1+q,x]=s_{311}+s_{42}+s_{51}+s_{61}+s_8)\otimes e_4\\ &+(s_{21}+s_{211}+2s_{31}+s_{32}+s_4+2s_4+2s_5+s_{51}+s_6+s_7)\otimes e_{31}\\ &+(s_{11}+s_{111}+s_2+s_{21}+s_{32}+s_4+2s_4+2s_4+2s_5+s_{51}+s_6+s_7)\otimes e_{31}\\ &+(s_{11}+s_{111}+s_2+2s_{21}+s_{31}+s_{32}+s_4+2s_4+2s_4+s_5)\otimes e_{211}\\ &+(1+s_1+s_{211}+2s_2+2s_{21}+4s_3+s_{31}+2s_4+s_5)\otimes e_{211}\\ &+(1+s_1+s_{211}+2s_2+2s_{21}+4s_3+s_{31}+2s_4+s_5)\otimes e_{211}\\ &+(1+s_1+s_{211}+2s_2+2s_{21}+4s_3+s_{31}+2s_4+s_5)\otimes e_{211}\\ &+(1+s_1+s_2)\otimes e_{1111},\\ &\mathcal{E}_{15}[1+q,x]=(s_{21}+s_4)\otimes e_5+(s_{11}+s_2+s_3)\otimes e_{41}+(s_1+s_2)\otimes e_{32}+(s_1)\otimes e_{311}+1\otimes e_{221},\\ &\mathcal{E}_{25}[1+q,x]=(s_{21}+s_4)\otimes e_5+(s_{11}+s_2+s_3)\otimes e_{41}+(s_1+s_2)\otimes e_{32}+(s_1)\otimes e_{21}+1\otimes e_{2111},\\ &\mathcal{E}_{55}[1+q,x]=(s_{111}+s_{311}+s_{411}+s_2+s_4+s_5)\otimes e_4\\ &+(2s_{111}+s_{211}+2s_{31}+s_{311}+s_{32}+s_3+s_{33}+s_{41}+s_{41}+s_4+2s_5+s_5)\otimes e_{21}\\ &+(2s_{111}+s_{211}+2s_{31}+s_{311}+s_{32}+s_3+s_{33}+s_{41}+s_{41}+s_4+2s_5+s_5+s_6)\otimes e_{21}\\ &+(2s_{111}+s_{211}+2s_{211}+s_{22}+2s_{211}+s_{22}+2s_{31}+s_{311}+s_{32}+2s_4+s_{41}+s_{42}+2s_{51}+s_{52}\\ &+2s_6+2s_6+s_7+s_7+s_7+s_8+s_9)\otimes e_{41}\\ &+(2s_{111}+2s_{21}+2s_{211}+s_{22}+2s_{31}+s_{311}+s_{32}+2s_4+s_{41}+2s_5+s_6+s_7)\otimes e_{311}\\ &+(3s_{11}+$$