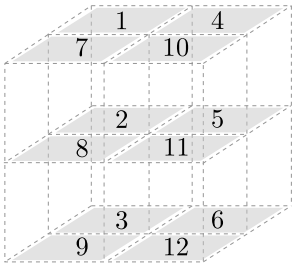
- local numberings

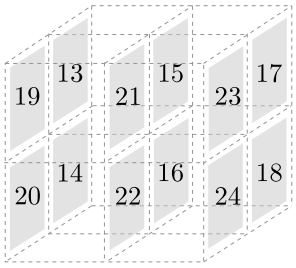
$F^{\xi}_{l,m,n}$



$$\mathsf{u}_{i+1+(j-1)(N+1)+(k-1)N(N+1)} = \mathsf{u}^{\xi}_{i,j,k}$$

$$i \in \{0, 1, \cdots, N\},\ j, k \in \{1, 2, \cdots, N\}$$

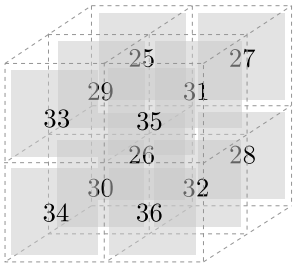
$F^{\eta}_{l,m,n}$



$$\mathsf{u}_{i+jN+(k-1)N(N+1)+N^2(N+1)} = \mathsf{u}^{\eta}_{i,j,k}$$

$$j \in \{0, 1, \cdots, N\},\ i, k \in \{1, 2, \cdots, N\}$$

$F^{\varsigma}_{l,m,n}$

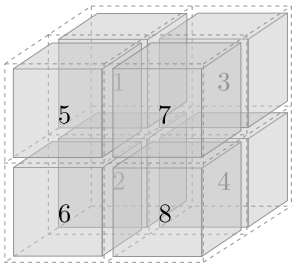


$$\mathsf{u}_{i+(j-1)N+kN^2+2N^2(N+1)} = \mathsf{u}^{\sigma}_{i,j,k}$$

$$k \in \{0, 1, \cdots, N\},\ i, j \in \{1, 2, \cdots, N\}$$

faces

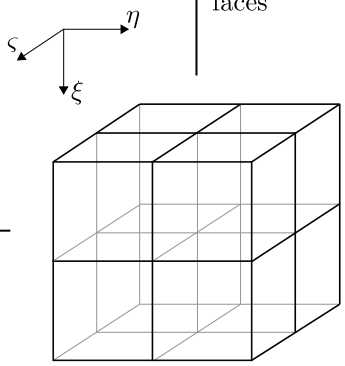
$V_{l,m,n}$



$$\mathsf{f}_{i+(j-1)N+(k-1)N^2} = f_{i,j,k}$$

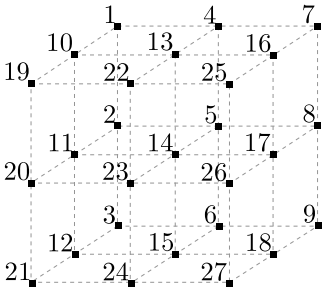
$$i, j, k \in \{1, 2, \cdots, N\}$$

volumes



points

$P_{l,m,n}$



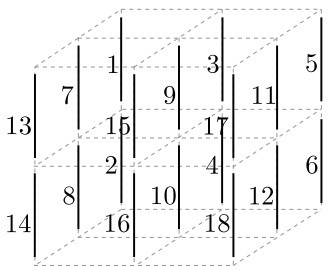
$$\mathsf{\Psi}_{i+1+j(N+1)+k(N+1)^2} = \mathsf{\Psi}_{i,j,k}$$

$$i, j, k \in \{0, 1, \cdots, N\}$$

$$N = N_{\xi} = N_{\eta} = N_{\varsigma} = 2$$

edges

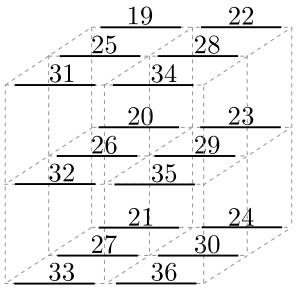
$E^{\xi}_{l,m,n}$



$$\mathsf{w}_{i+jN+kN(N+1)} = \mathsf{w}^{\xi}_{i,j,k}$$

$$i \in \{1, 2, \cdots, N\},\ j, k \in \{0, 1, \cdots, N\}$$

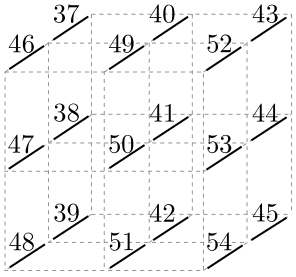
$E^{\eta}_{l,m,n}$



$$\mathsf{w}_{i+1+(j-1)(N+1)+kN(N+1)+N(N+1)^2} = \mathsf{w}^{\eta}_{i,j,k}$$

$$j \in \{1, 2, \cdots, N\},\ i, k \in \{0, 1, \cdots, N\}$$

$E^{\varsigma}_{l,m,n}$



$$\mathsf{w}_{i+1+j(N+1)+(k-1)(N+1)^2+2N(N+1)^2} = \mathsf{w}^{\varsigma}_{i,j,k}$$

$$k \in \{1, 2, \cdots, N\},\ i, j \in \{0, 1, \cdots, N\}$$