Initial projected residual	$\boldsymbol{\lambda}_0 = \boldsymbol{\lambda}_0 + \mathbf{P}\boldsymbol{\lambda}_{00}$
Initial projected residual	$\mathbf{r}_0 = \mathbf{P}^T(\mathbf{d} - \mathbf{F}\boldsymbol{\lambda}_0)$
???	$\mathbf{Z}_0 = \mathbf{S}\left[\cdots, \mathbf{B}^{(s)}(\mathbf{d}^{(s)} - \mathbf{F}^{(s)}\mathbf{B}^{(s)\,T}\boldsymbol{\lambda}_0), \cdots\right]$
Project Residual to natural coarsegrid	$\mathbf{W}_0 = \mathbf{P}\mathbf{Z}_0$
Initialize	$\boldsymbol{\lambda}_0 = 0, i = 0$
While not converged	$\sqrt{\mathbf{r}^T\mathbf{Z}\mathbf{1}} > \epsilon$
Project search direction to coarse grid	$\mathbf{Q}_i = \mathbf{F}\mathbf{W}_i$
What does that step do???	$\boldsymbol{\Delta}_i = {\mathbf{Q}_i}^T\mathbf{W}_i$
What does that step do???	$\boldsymbol{\gamma}_i = {\mathbf{r}_i}^T\mathbf{Z}_i$
???	$\boldsymbol{\lambda}_{i+1} = \boldsymbol{\lambda}_i + \mathbf{W}_i{\boldsymbol{\Delta}_i}^+\boldsymbol{\gamma}_i$
Update residual	$\mathbf{r}_{i+1} = \mathbf{r}_i - \mathbf{P}^T\mathbf{Q}_i\boldsymbol{\Delta}_i^+\boldsymbol{\gamma}_i$
Precondition Residual	$\mathbf{Z}_{i+1} = \mathbf{S}\mathbf{P}^T\mathbf{Q}_i$
Project to ???	$\mathbf{W}_{i+1} = \mathbf{P}\mathbf{Z}_{i+1}$
Loop over previous iterations	for: $0 \leq j \leq i$
Compute ???	$\boldsymbol{\phi}_{i,j} = \mathbf{Q}_j^T\mathbf{W}_{i+1}$
Orhorgonalize new direction	$\mathbf{W}_{i+1} \leftarrow \mathbf{W}_{i+1} - \mathbf{W}_j{\boldsymbol{\Delta}_j}^+\boldsymbol{\phi}_{i,j}$
Increase iteration counter	$i \leftarrow i + 1$
Compute total interface forces	$\boldsymbol{\lambda} = \boldsymbol{\lambda}_i$