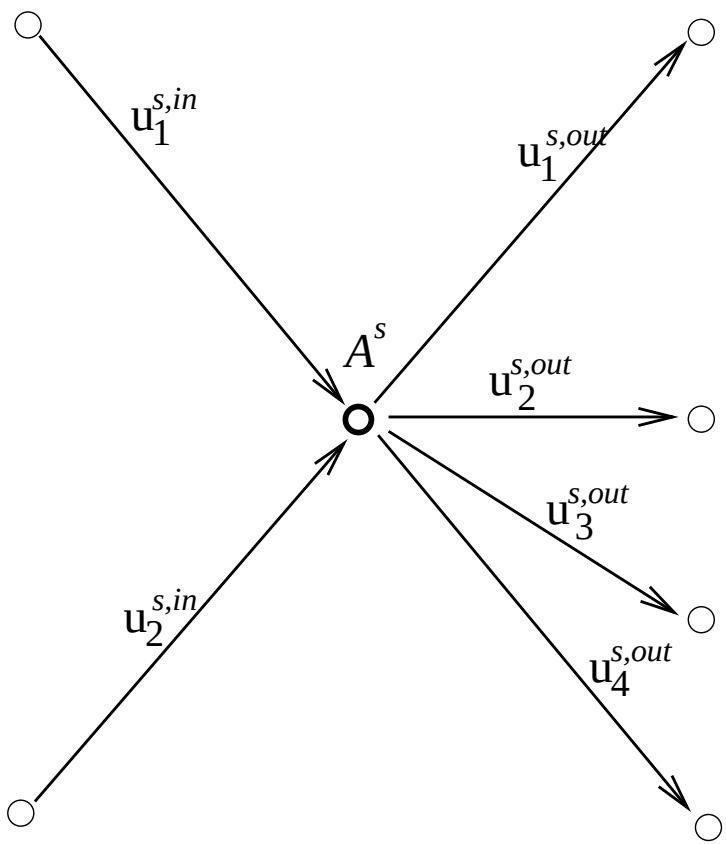
$u_1^{s,in}$
$u_1^{s,out}$
A^s
$u_2^{s,out}$
$u_3^{s,out}$
$u_2^{s,in}$
$u_4^{s,out}$