

```

In[8]:= Needs["AGT`", FileNameJoin[{NotebookDirectory[], "agt.m"}]]

In[9]:= {num, vert, edge} = {10, 7, 9};
G = Table[RandomTree[vert, edge], {i, num}];
M = Map[KirchhoffMatrix, G];

In[12]:= Map[SmithSeq, G] // Column
Out[12]=
{1, 1, 1, 1, 1, 1, 0}
{1, 1, 1, 1, 1, 1, 0}
{1, 1, 1, 1, 1, 1, 0}
{1, 1, 1, 1, 1, 1, 0}
{1, 1, 1, 1, 1, 1, 0}
{1, 1, 1, 1, 1, 1, 0}
{1, 1, 1, 1, 1, 1, 0}
{1, 1, 1, 1, 1, 1, 0}
{1, 1, 1, 1, 1, 1, 0}

In[13]:= Export[
  StringJoin[
    StringDrop[
      NotebookFileName[], -3], ".pdf"],
  EvaluationNotebook[]
];

```