

The following example is a convincing reason to believe that  
 $F(f \otimes g) = F(f) * F(g)$   
where  $*$  is the Kronecker product:

First I compute the Frobenius image of the product of two Schur functions:

```
> tos(toSnFrob(s[4,2]*s[3,1,1],5));
406 s[5] + 1712 s[4, 1] + 2170 s[3, 2] + 2664 s[3, 1, 1] + 2222 s[2, 2, 1] + 1816 s[2, 1, 1, 1]
+ 458 s[1, 1, 1, 1]
```

Next I compute the Kronecker product (or the 'inner' tensor product) of the Frobenius images:

```
> tos(itensor(toSnFrob(s[4,2],5),toSnFrob(s[3,1,1],5)));
406 s[5] + 1712 s[4, 1] + 2170 s[3, 2] + 2664 s[3, 1, 1] + 2222 s[2, 2, 1] + 1816 s[2, 1, 1, 1]
+ 458 s[1, 1, 1, 1]
```

I will include a proof of this fact in the write-up that I provide later.