

```

      PROGRAM stotau
*****
* Conversion of sigma functions to                               *
* frequence dependent 1/tau, m/m*                               *
* from standard input it reads:
* input filename
* epsilon infinity, plasma-frequency
* the input file must have the format x s1 s2                   *
*****
      REAL X(10000),s1,s2,gam,msm
      complex epsil(10000),einv
      INTEGER I,mm
      mm=10000
      do 10 i=1,mm
         READ(*,*,END=11) X(i),s1,s2
         epsil(i)=cplx(s1,s2)*(0.,1.)/(x(i)*0.5*0.0333795)
10      continue
11      mm=i-1
         do 25 i=1,mm
            einv=1./epsil(i)
            gam=-aimag(einv)/x(i)
            msm=-real(einv)/(x(i)*x(i))
            write(*,*) x(i),gam,msm
25      continue
      END

```