

INTERNATIONAL SUMMER SCHOOL on COMPUTATIONAL QUANTUM MATERIALS



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```
else  
{  
    tempr = c22r / cz;  
    tempi = c22i / cz;  
    t1 = hypot(cz, c21);  
    cz /= t1;  
    szr = -c21*tempr / t1;  
    szi = c21*tempi / t1;  
}  
}  
  
an = fabs(A11) + fabs(A12) + fabs(A2  
bn = fabs(B11) + fabs(B22);  
wabs = fabs(wr1) + fabs(wi);  
if (scale1*an > wabs*bn)  
{  
    cq = cz * B11;  
    if (cq <= GSL_DBL_MIN)  
    {  
        cq = 0.0;  
        sqr = 1.0;  
        sqi = 0.0;  
    }  
    else  
    {  
        sqr = szr * B22;  
        sqi = -szi * B22;  
    }  
}  
}  
else  
{  
    a1r = cz * A11 + szr * A12;  
    a1i = szi * A12;  
    a2r = cz * A21 + szr * A22;  
    a2i = szi * A22;  
    cq = hypot(a1r, a1i);  
    if (cq <= GSL_DBL_MIN)  
    {  
        cq = 0.0;  
        sqr = 1.0;  
        sqi = 0.0;  
    }  
    else  
    {  
        tempr = a1r / cq;  
        tempi = a1i / cq;  
        szr = (tempr * /2 + tempi * /  
        szi = (tempi * /2 - tempr * /
```