

```

$TnD = 3; $TeD = 2;  $\epsilon$  /:  $\epsilon^{d..}$  /;  $d > $TeD := 0$ ;
(* $TeD can't be  $\infty$  at least because of Quesne. Can't be  $\leq$ 
1 at least because of the explicit  $\epsilon^2$  in  $\mathbb{S}\mathbb{D}\$g$  *)
SetAttributes[{SS, SST}, HoldAll];
SS[ $\mathcal{E}_$ ] := Block[{ $\hbar$ ,  $\epsilon$ }, (* Shielded Series *)
  Collect[Normal@Series[ $\mathcal{E}$ , { $\hbar$ , 0, $TnD}],  $\hbar$ , Together] ];
SST[ $\mathcal{E}_$ ] :=
  Block[{ $\hbar$ ,  $\epsilon$ },
    Collect[Normal@Series[ $\mathcal{E}$  /. { $T_{i_}$   $\rightarrow$   $e^{\hbar t_i/2}$ ,  $T \rightarrow e^{\hbar t/2}$ },
      { $\hbar$ , 0, $TnD}],  $\hbar$ , Together] ];
Simp[ $\mathcal{E}_$ ,  $op_$ ] := Collect[ $\mathcal{E}$ , _CU | _QU,  $op$ ];
Simp[ $\mathcal{E}_$ ] :=
  Simp[ $\mathcal{E}$ , Collect[Normal@Series[#, { $\hbar$ , 0, $TnD}],
     $\hbar$ , Expand] &];
SimpT[ $\mathcal{E}_$ ] := Collect[ $\mathcal{E}$ , _CU | _QU,
  Collect[Normal@Series[#, { $T_{i_}$   $\rightarrow$   $e^{\hbar t_i/2}$ ,  $T \rightarrow e^{\hbar t/2}$ },
    { $\hbar$ , 0, $TnD}],  $\hbar$ , Expand] &];

```