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decomposition of the Einstein equations. 3+1  
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... 3+1 decomposition of the stress-energy tensor.  $E$  :  
Eulerian observer = observer of 4-velocity  $n$   $E := T(n, n)$   
: matter energy density as measured by  $E$   $p :=$   
 $-T(n, \sim\gamma(.))$  : matter momentum density as measured  
by  $E$   $S := T(\sim\gamma(.), \sim\gamma(.))$  : matter stress tensor as  
measured by  $E$   $T = S + n \otimes p + p \otimes n + E n \otimes n$ . 3+1  
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