
AE 4532 Quaternion finder using e and nu

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```
function quaternion = q_finder_enu(R)

tr_r = trace(R);
nu = acos((tr_r-1)/2);

e= (1/(2*sin(nu)))*[R(2,3)-R(3,2);
                   R(3,1)-R(1,3);
                   R(1,2)-R(2,1)];

quaternion = [cos(nu/2);e*sin(nu/2)];

end
```

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