

Internal  
Region

External Region

Target  
Nucleus

$r=a$

*R*-Matrix boundary  $r=a$



The diagram shows a large circle representing the boundary of the R-Matrix calculation. A small black dot inside the circle represents the target nucleus. A blue arrow points from the nucleus to the circle's edge, labeled with the radius  $r=a$ . The area inside the circle is labeled 'Internal Region' and the area outside is labeled 'External Region'. The text '*R*-Matrix boundary  $r=a$ ' is positioned at the bottom of the circle.