```
v = Eigenvalues[H];
\lambda 1 = v[[1]];
\lambda 2 = v[[2]];
A = Sqrt[1 + ((\lambda 1 - h1) / \lambda)^2];
B = Sqrt[1 + ((\lambda 2 - h1) / \lambda)^2];
Simplify [1/A^2 + 1/B^2]
```

 $ln[1]:= H = \{\{h1, \lambda\}, \{\lambda, h2\}\};$

Out[7]= 1