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```
804 \begin{co                                IFBURN}
805 Suppose $                                lex Hilbert space and let $\A$ be a weakly closed
806 subalgebr                                \A\neq\BH$. Then there exist {\em unit} vectors
807 $f,h\in\H                                for all $A\in\A$:
808 \begin{eq                                e:AbsESS}
809   \abs{\s                                \essnorm{A}.
810 \end{equa
811 \end{cor}
812
813 \begin{pr
814 By Theore                                BURN} there exist unit vectors $f,h\in\h$, such that
815 for every $A\in\A$
816 \[ \abs{\RE{\seq{A f,h}}}\leq\essnorm{\RE{A}}. \]
817 Set
818 \[ \xi = \left\lbrace
819           \begin{array}{c l}
820              1 & \text{if $\seq{A{}f,h}=0$},\\
821              \tfrac{\seq{A{}f,h}}{\abs{\seq{A{}f,h}}} & \text{otherwise}.
822           \end{array}
823         \right. \]
824 Then
825 \[ \abs{\seq{A f,h}} = \abs{\RE\seq{\xi A f,h}} \leq \essnorm{\RE(\xi A)}
826    \leq \essnorm{\xi A} = \essnorm{A}, \]
827 and consequently, the condition (\ref{e:AbsESS}) is weaker than
828 (\ref{e:ReESS}).
829 \end{proof}
```

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