$$\dfrac{\dfrac{\dfrac{}{(P\wedge Q)\wedge R \vdash P\wedge Q\wedge R}\,\text{hyp}}{(P\wedge Q)\wedge R \vdash P\wedge Q\wedge R}\,\wedge\text{-E(L)} \qquad (P\wedge Q)\wedge R,\ P\wedge Q \vdash P}{(P\wedge Q)\wedge R \vdash P\wedge Q}\,\text{cut} \qquad \dfrac{(P\wedge Q)\wedge R \vdash P \qquad (P\wedge Q)\wedge R \vdash Q\wedge R}{(P\wedge Q)\wedge R \vdash P\wedge(Q\wedge R)}\,\wedge\text{-I}$$