

Re: Nonfirstorderizability

Source: <http://sci.tech--archive.net/Archive/sci.logic/2005-08/msg00296.html>

- *From:* "Keith Ramsay" <kramsay@xxxxxxx>
 - *Date:* 15 Aug 2005 20:20:13 -0700
-

George Dance wrote:

|george wrote:

|> > > Some relative of each villager and some relative

|> > > of each townsman hate each other.

|>

|> How about

|> Axy[$\forall x \& \forall y \rightarrow \exists u [R_{xu} \& R_{yv} \& H_{uv} \& H_{vu}]]$

|

|How does that differ from what you snipped:

| $\exists x \exists y \exists z \exists u ((\forall x \rightarrow R_{zx}) \& (\forall y \rightarrow R_{uy}) \& (H_{zu} \& H_{uz}))$

|?

Suppose there are no villagers or townsmen. Then the first version is true, while the second version still requires that (if there is anyone) there exists either one person $z=u$ who hates himself or two people $z \neq u$ who hate each other.

Keith Ramsay

.

- *Follow-Ups:*
 - ◆ **Re: Nonfirstorderizability**
 - ◇ *From:* George Dance
- *References:*
 - ◆ **Nonfirstorderizability**
 - ◇ *From:* Michael De
 - ◆ **Re: Nonfirstorderizability**
 - ◇ *From:* Michael De
 - ◆ **Re: Nonfirstorderizability**
 - ◇ *From:* George Dance
 - ◆ **Re: Nonfirstorderizability**
 - ◇ *From:* Michael De
 - ◆ **Re: Nonfirstorderizability**

Re: Nonfirstorderizability

◇ *From:* George Dance

◆ ***Re: Nonfirstorderizability***

◇ *From:* Torkel Franzen

◆ ***Re: Nonfirstorderizability***

◇ *From:* George Dance

◆ ***Re: Nonfirstorderizability***

◇ *From:* Torkel Franzen

◆ ***Re: Nonfirstorderizability***

◇ *From:* George Dance

◆ ***Re: Nonfirstorderizability***

◇ *From:* george

◆ ***Re: Nonfirstorderizability***

◇ *From:* George Dance

- Prev by Date: ***Re: Is this book any good?***
- Next by Date: ***Re: Is this book any good?***
- Previous by thread: ***Re: Nonfirstorderizability***
- Next by thread: ***Re: Nonfirstorderizability***
- Index(es):
 - ◆ ***Date***
 - ◆ ***Thread***