

NemoMath - Support #1632

Support for outer product of two vectors

09/19/2013 03:05 PM - C. Emmerich

Status:	Rejected	Start date:	09/19/2013
Priority:	High	Due date:	
Assignee:	M. Rolf	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	NemoMath 0.4		

Description

Is there any possibility to build the outer product of two vectors? I tried

```
RealVector h(3.0, 4.0, 5.0);  
RealMatrix hht = h * h.transpose();
```

but this results in

```
error: no match for 'operator*' in 'h * nemo::MathVector<T>::transpose() [with T = double]'  
note: candidates are:  
...
```

- 1) Is it possible to include this feature to NemoMath?
- 2) Until then, or if not, what is the recommended work around?

History

#1 - 09/20/2013 03:41 AM - M. Rolf

- Status changed from New to Rejected
- Assignee set to M. Rolf
- Target version set to NemoMath 0.4
- % Done changed from 0 to 100

This feature is already available in Matrix.h:

<https://code.cor-lab.org/projects/nemomath/repository/entry/trunk/nemomath/src/nemo/Matrix.h#L1204>

See:

<https://code.cor-lab.org/projects/nemomath/repository/entry/trunk/nemomath/test/MatrixArithmetics.cpp#L487>