

## GammaLib - Action #1843

### Avoid code duplication in const and non-const functions and operators

08/12/2016 10:44 AM - Knödlseider Jürgen

<b>Status:</b>	In Progress	<b>Start date:</b>	08/12/2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>		<b>% Done:</b>	10%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
Non-const and const functions and operators often contain the same code. This should be avoided. The problem is described and a solution is proposed here: <a href="http://stackoverflow.com/questions/123758/how-do-i-remove-code-duplication-between-similar-const-and-non-const-member-func">http://stackoverflow.com/questions/123758/how-do-i-remove-code-duplication-between-similar-const-and-non-const-member-func</a>			
This solution should be implement for all non-const GammaLib functions and operators that have also a const version (in case that their code is identical, which should be the case).			

#### History

##### #1 - 07/08/2019 10:49 AM - Knödlseider Jürgen

- Target version set to 1.7.0

##### #2 - 07/09/2020 03:21 PM - Knödlseider Jürgen

- Target version changed from 1.7.0 to 2.0.0

Moved issue to next release.

##### #3 - 08/05/2020 03:31 PM - Knödlseider Jürgen

- Status changed from New to In Progress

- % Done changed from 0 to 10

I implement some type casting for GXmlNode:

```
GXmlElement* GXmlNode::element(const int& index)
{
    // Return child element using const method
    return const_cast<GXmlElement*>(static_cast<const GXmlNode*>(this)->element(index));
}
```

The GXmlNode will go into the bugfix release 1.7.1.

##### #4 - 03/14/2022 12:27 PM - Knödlseider Jürgen

- Target version deleted (2.0.0)