# Install guide for the updated Physics Library for Maple

Option 1: Install the updated Physics library (it contains as well the updates to Differential Equations and Mathematical Functions) into Maple's system library folder. Proceeding as indicated below, this option does not entail any particular problem and is simpler than Option 2. Note however that modifying your Maple system library folder is done at your own risk.

1. To discover the path to your Maple system library folder, type the following into Maple: $cat(\ kernelopts(\ mapledir\ ),\ "/lib"\ )$.

2. Make sure that Maple is closed. Open a file browser and go to that Maple system library directory.

3. Copy the **Physics2017.mla** file found within the zip that contains the Updated Physics library (where this file you are reading is included) into your Maple system library folder - if the file already exists, overwrite it.

4. Maple will now use the updated **Physics2017.mla** rather than the older **Physics.mla** distributed with Maple 2017. If you want to revert these changes, delete the updated **Physics2017.mla** file.

5. To verify that you are running the updated Physics library, enter: $Physics{:}\text{-}Version()$; into Maple. You should now see the directory where the library is stored as well as the build date of the library shown in the first input line in the worksheet **PhysicsUpdate.mw** found within the distributed zip file.

Option 2: Install the updated **Physics2017.mla** to a user library folder:

If you have previously added that user library path to 'libname', please copy **Physics2017.mla** to that folder. If you have not, you may add that user library folder by doing the following:

1. Copy **Physics2017.mla** to that user library folder.

   If you do not have a user library folder, simply create a folder for your Maple library files. This folder may be located anywhere on your computer, though a suggested path is to create a new folder called MapleLib in your "home directory" and place the files there. To find your home directory in Maple, use: $kernelopts(\ homedir\ )$; For more information, see $?homedir$

2. Open your Maple initialization file.  See the help page $?worksheet,\ reference,\ initialization$ for details on how to create and configure these initialization files.

3. Add the line: $libname := "PathToUserLibraryFolder",\ libname$:
   For example, to add the path to your "MapleLib" folder under your home directory use
   $libname := cat(\ kernelopts(\ homedir\ ),\ kernelopts(\ dirsep\ ),\ "MapleLib"\ )$, libname:

4. Save your Maple initialization file and restart Maple.

5. To verify that you are running the updated Physics library, enter: $Physics{:}\text{-}Version()$; into Maple. You should now see the directory where the library is stored as well as the build date of the library shown in the first input line in the worksheet **PhysicsUpdate.mw** found within the distributed zip file.