gui_unifiée/function_readPGM.py

```python
from re import search
from numpy import frombuffer

"""
Lecture d'un fichier PGM
Source : https://github.com/jmeyers314/astrophotoreduce/blob/master/pgm.py
"""
def readPGM(filename, byteorder='>'):
    """
    Return image data from a raw PGM file as numpy array.
    Format specification: http://netpbm.sourceforge.net/doc/pgm.html
    """
    with open(filename, 'rb') as f:
        buffer = f.read()
    try:
        header, width, height, maxval = search(
            b"(^P5\s(?:\s*#.*[\r\n])*"
            b"(\d+)\s(?:\s*#.*[\r\n])*"
            b"(\d+)\s(?:\s*#.*[\r\n])*"
            b"(\d+)\s(?:\s*#.*[\r\n]\s)*)", buffer).groups()
    except AttributeError:
        raise ValueError("Not a raw PGM file: '%s'" % filename)
    return frombuffer(buffer,
                        dtype='u1' if int(maxval) < 256 else
byteorder+'u2',
                        count=int(width)*int(height),
                        offset=len(header)
                        ).reshape((int(height), int(width)))
```