```
#!/bin/bash

# # In this script one comment before SBATCH is for enable option

# # two comment before SBATCH is for disable option


#****** OPTIONS TO CHANGE IN PRIORITY ******

# -p : queue      - defq (default): unlimited

#                 - express (15 min & 4 nodes max)

# -n : processors (20 per node in defq and express)

# -N : nodes

# -t : walltime (format h:mm:ss): default is 12h

# --mem=<memory in Megabytes> : 64 GB per node (3.2 GB per core) on defq

# --mem-per-cpu=2048M  :3.2 GB per CPU on defq

# --exclusive : Job allocation can not share nodes with other running jobs


#SBATCH -J calcul_MEEP

#SBATCH -p kernel3

#SBATCH -n 4

##SBATCH -N 1

#SBATCH -t 72:00:00

##SBATCH --mem=256000

##SBATCH --mem-per-cpu=2048M

##SBATCH --exclusive



ENTREE=fichier_INPUT.ctl

curentdir="$PWD"
```

```
echo Running on $(hostname)
echo Available nodes: $SLURM_NODELIST
echo Slurm_submit_dir: $SLURM_SUBMIT_DIR
echo Start time: $(date)
echo Job ID: $SLURM_JOB_ID

#create your SCRATCH directory
SCRATCH=/scratch/$USER/$SLURM_JOB_ID
mkdir $SCRATCH

# Copy all input files to your scratch directory
cp $SLURM_SUBMIT_DIR/* $SCRATCH/.
cd $SCRATCH
echo "Files accessible during runtime (read-only) in dir.: $SCRATCH"

#load environment modules
module purge
module load shared
module load slurm gcc openmpi/intel/64/1.8
module load meep/1.3

# Write here your command line
#mpirun <executable> <arguments>
mpirun meep-mpi $ENTREE > fichier_OUTPUT.out


# Copy all OUTPUT files to your home directory
```

```
mkdir $SLURM_SUBMIT_DIR/result_$SLURM_JOB_ID

cp $SCRATCH/* $SLURM_SUBMIT_DIR/result_$SLURM_JOB_ID/.


#Remove your scratch folder

rm -fr $SCRATCH
```