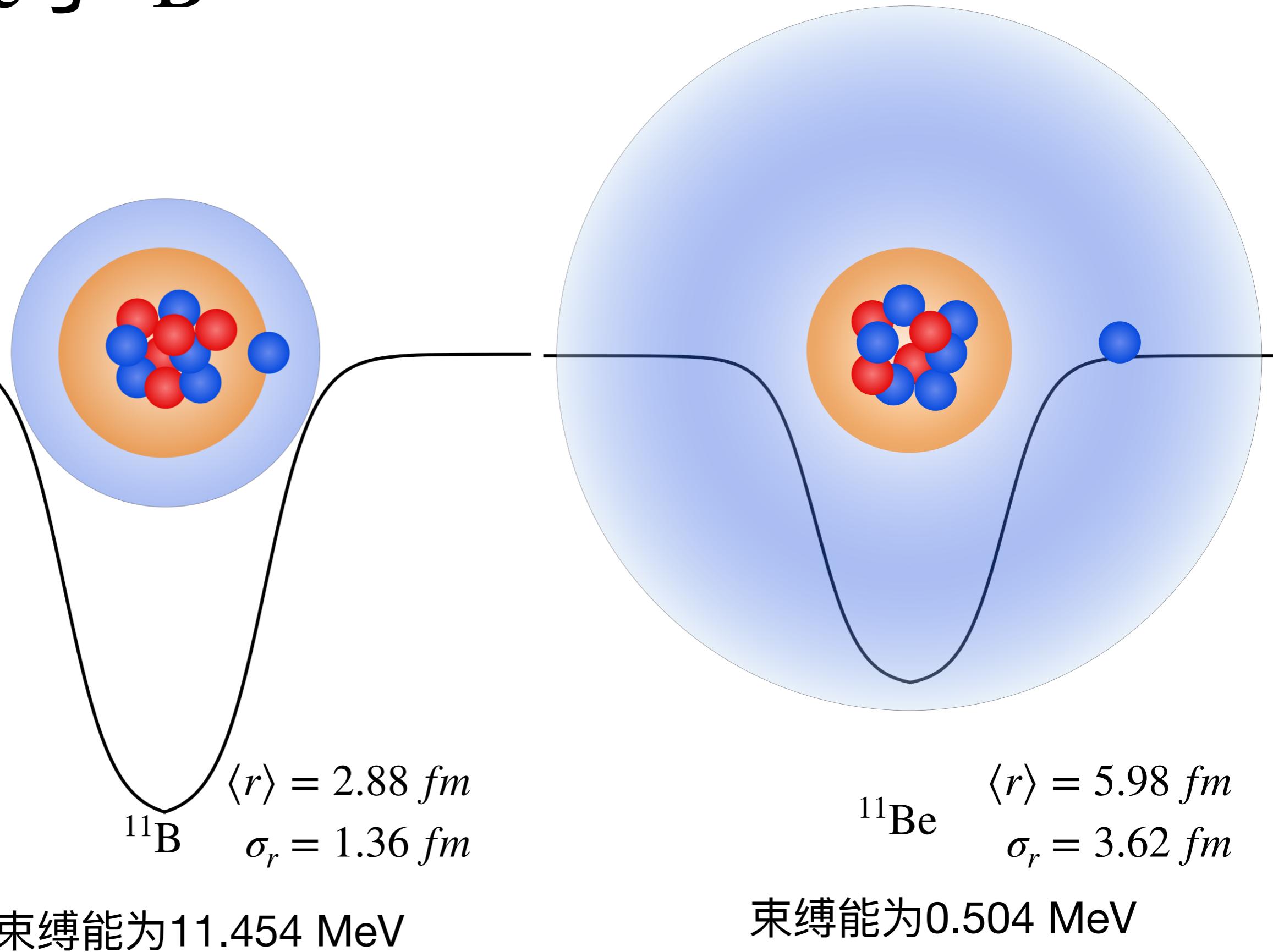


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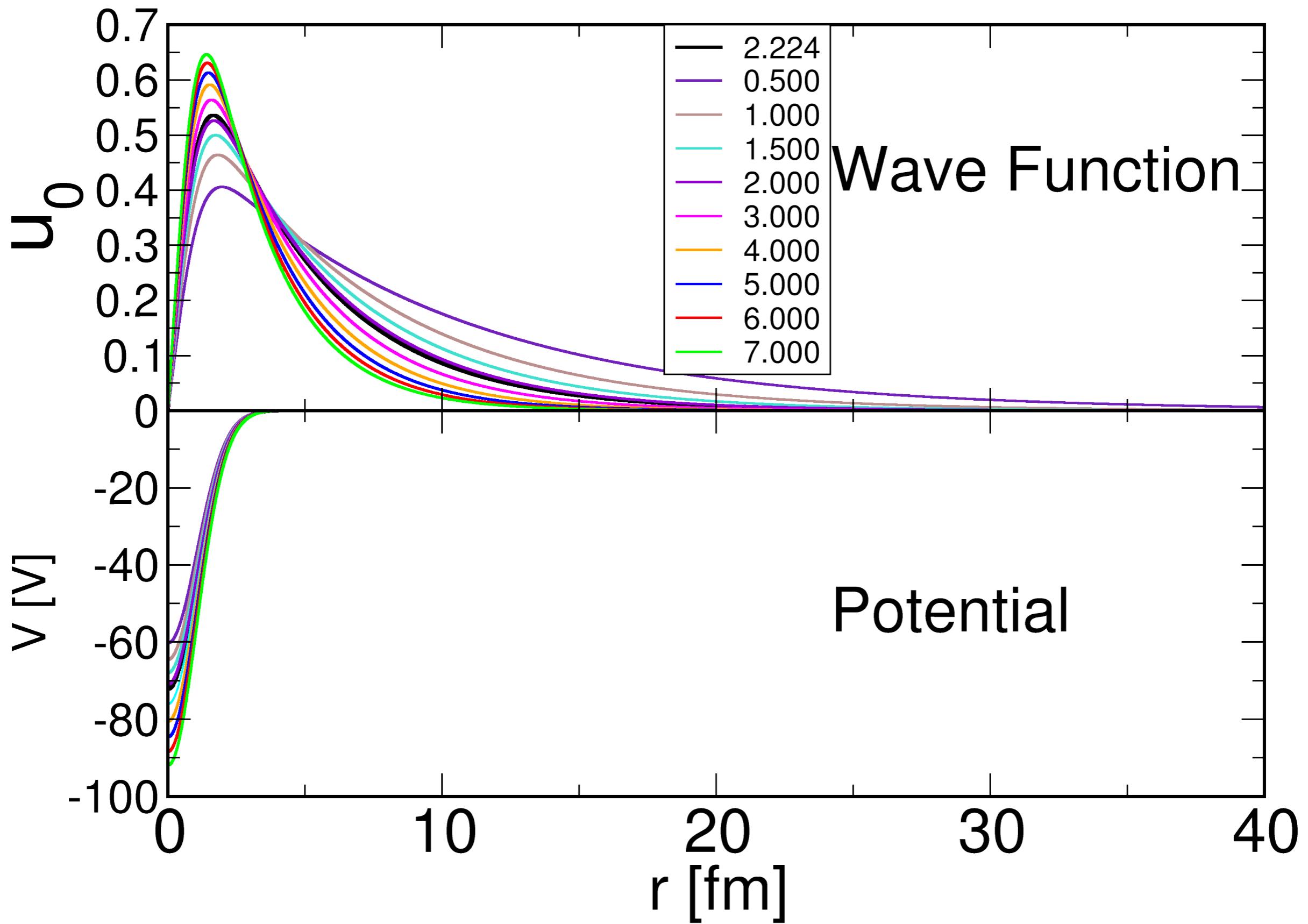
# 弱束缚核

刘昊

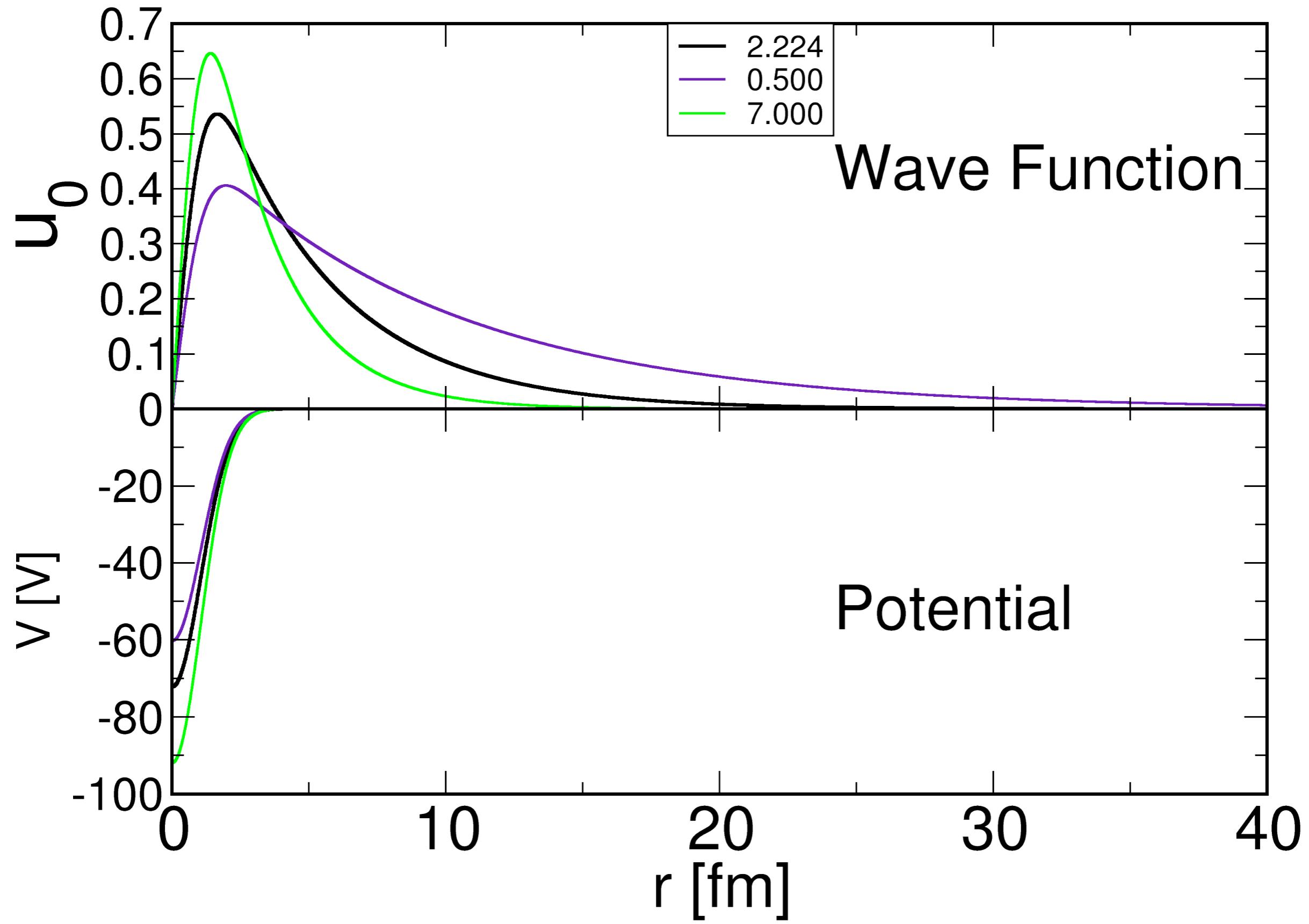
# $^{11}\text{Be}$ 与 $^{11}\text{B}$



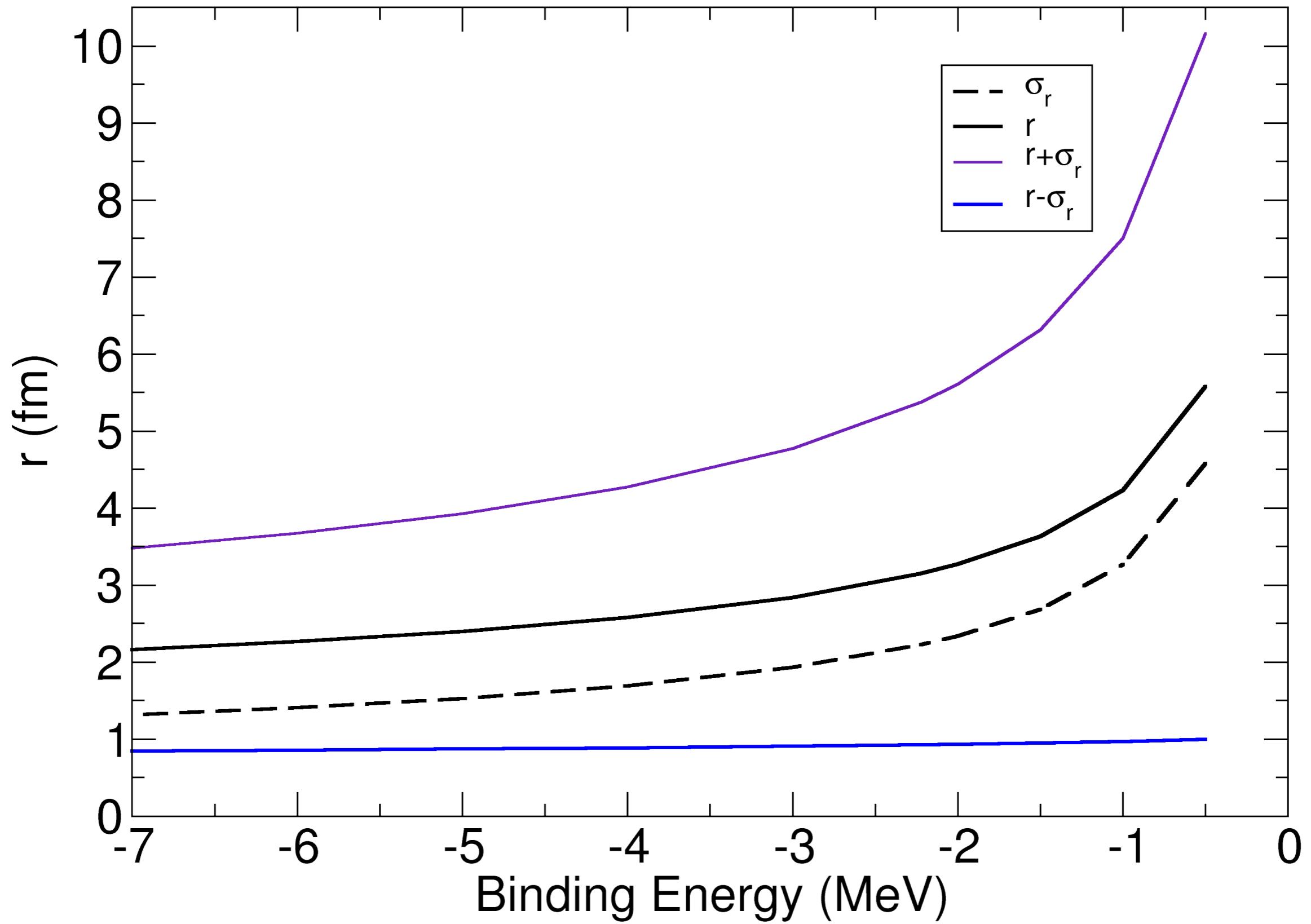
# 不同束缚能下的np束缚态的波函数



# 不同束缚能下的np束缚态的波函数

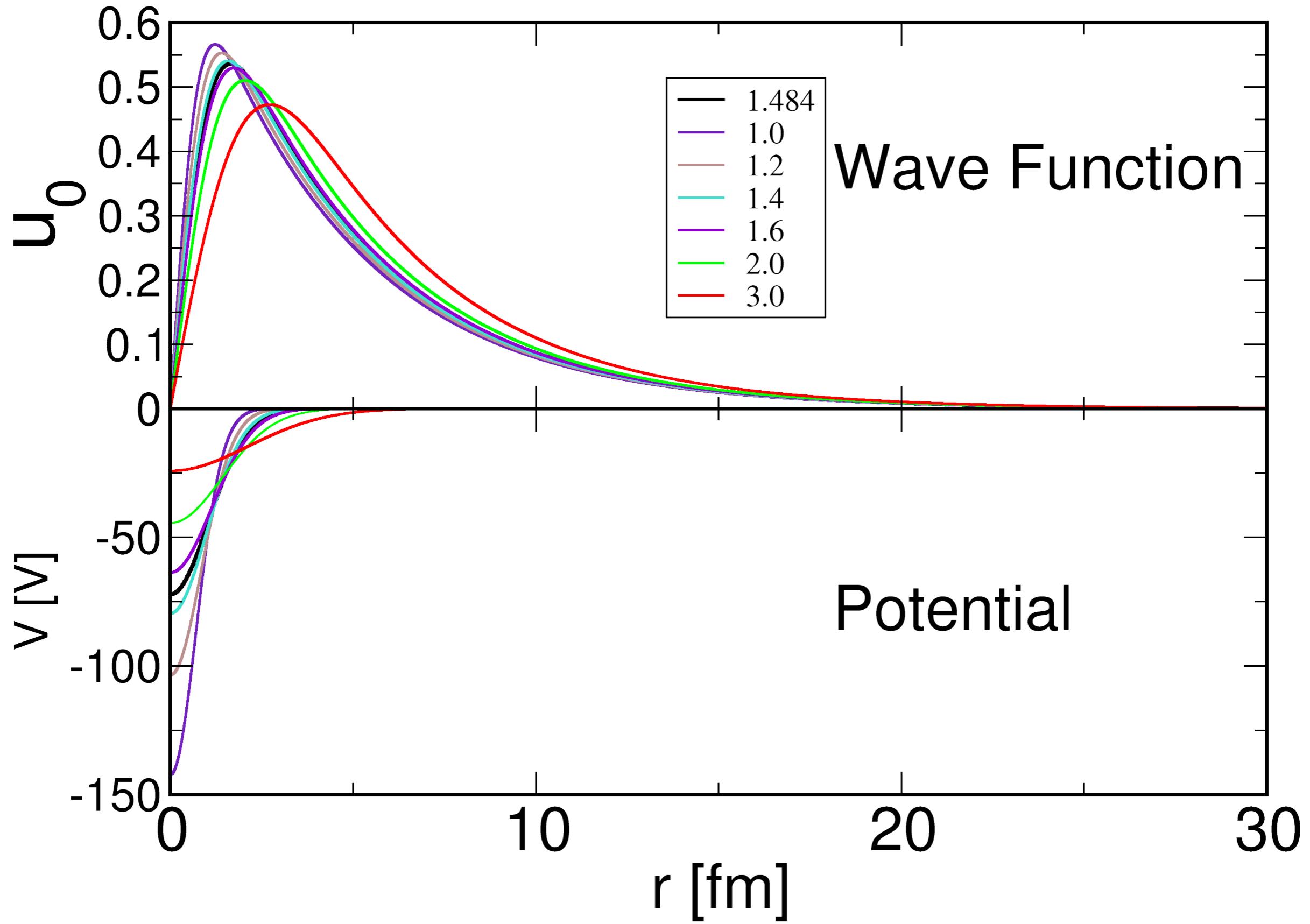


# 不同束缚能下的np束缚态

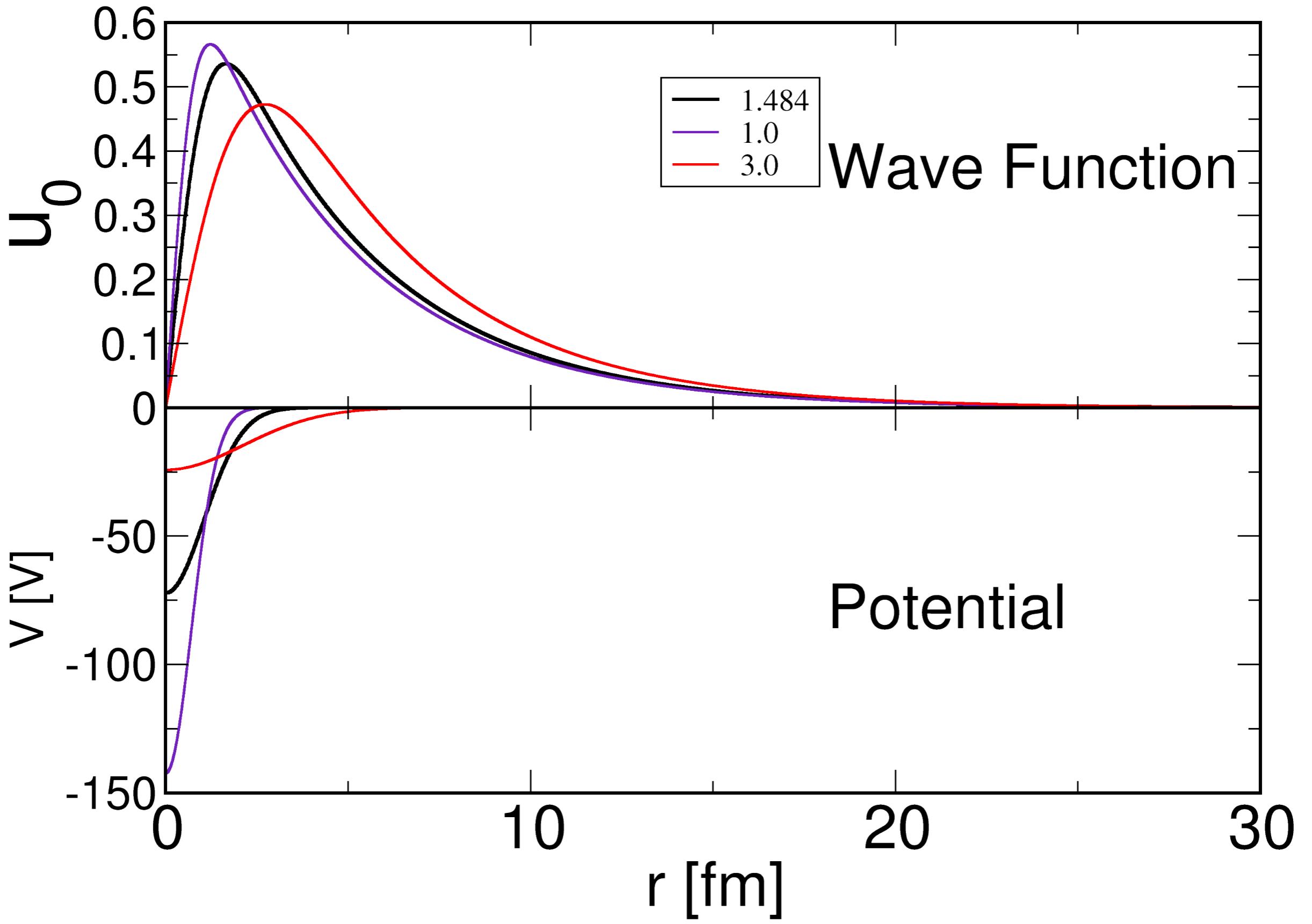


# 不同a下的np束缚态

$$V(r) = V_0 \exp(-r^2/a^2)$$



# 不同束缚能下的np束缚态



# Bash脚本更改input

```
# 设置要处理的值
values=(-0.50 -1.0 -1.50 -2.0 -3.0 -4.0 -5.0 -6.0 -7.0)

# 循环处理每个值
for be in "${values[@]}"
do
    # 创建一个新的目录以存储结果文件
    if [ ! -d "result_$be" ]
    then
        # create a new directory to store the result files
        mkdir -p "result_$be"

        # replace the value of be in put.in with the current value in the loop
        #sed -i "s/be=-[0-9.]*\+/be=$be/" put.in
        awk -v be="$be" '{sub(/be=[^ ]*/,"be=\"be\")}1' put.in > put.in.tmp && mv put.in.tmp put.in

    # run the program and redirect the output to the out file
    ./test < put.in > out

    # copy the files with fort prefix and out file to the result directory
    cp fort.* out "result_$be/"
    else
        echo "result_$be already exists, skipping..."
        awk -v be="$be" '{sub(/be=[^ ]*/,"be=\"be\")}1' put.in > put.in.tmp && mv put.in.tmp put.in

    #sed -i '' 's/be.*$/be:=$be/g' put.in
    # run the program and redirect the output to the out file
    ./test < put.in > out

    # copy the files with fort prefix and out file to the result directory
    cp fort.* out "result_$be/"
    fi

done
```