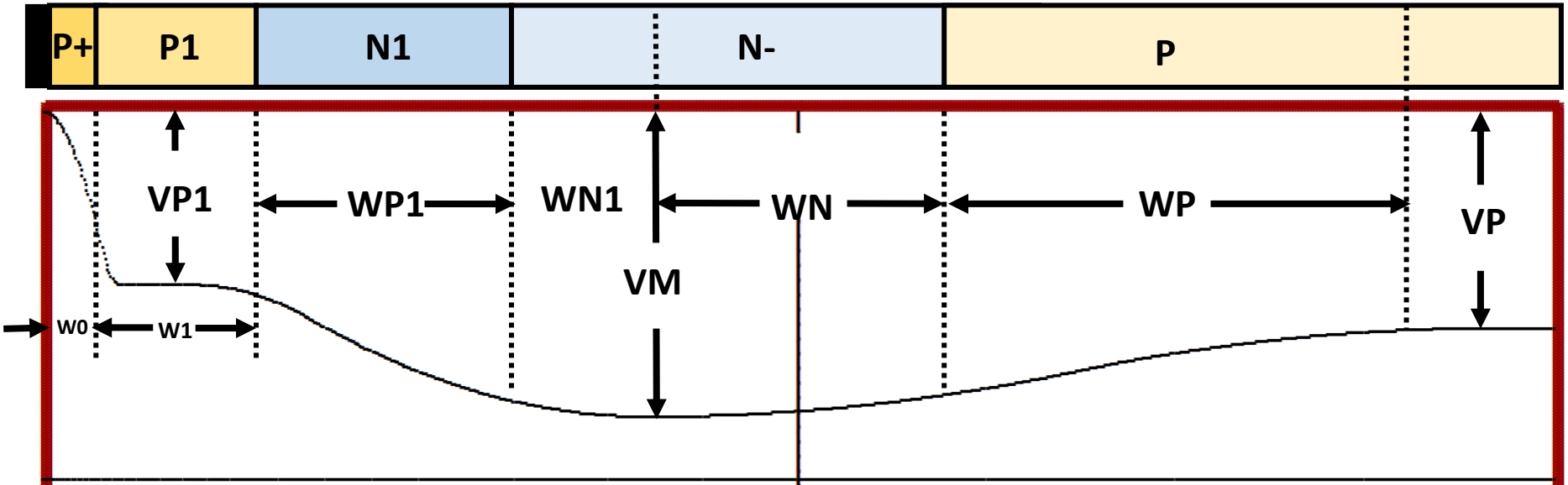
P+PNN-PP+ junction ダブル接合Pinned Photodiode型太陽電池

Depletion Approximation

JPA2020-131313 (JP6828108)参照

2023_11_24_Pinned_Photodiode_type_Solar_Cell_by_Yoshiaki_Hagiwara_Slides.pdf

```
*****************************************************************************
** Graph Plot of Potential Voltage V(X) { Xmin = 0 , Xmax = 1 , Vmin = 0 , Vmax = 1 ;} **
*****************************************************************************
P+PNN-PP+ Pinned Photodiode Type Solar Cell ; DN=1000;XJ=0.630783;DP=-1000;WN=0.279479;
Doping Levels = { DPP=-100000000, DP1=-10000, DN1=3445, DN=1000, DP=-1000, DPP=-10000000; }
Minimum Potential = { VM=0.415269, XM=0.490866, WW=WNN+WPP=1.161566, W=WN+WP=0.558959;}
Depletion Width = { WNN=WPP=0.580783, WN=WP=0.279479, WP1=0.077202, WN1=0.224102;}
```



C2024_02_15_Source_Code_File_(a.c)

C2024_02_15_補助_input_data_file_(z1.txt)

C2024_02_15_Output_File_(A.txt)

C2024_02_15_Output_Graph_Plot_(G1.html)

これは空乏層近似による解析解の計算結果です。

```
DPP=DNN=100000000 ; X1=0.05 ; X2=0.10;
W2=WNN-WN=0.301303;
DP1=10000; X3=0.177202;
DN1=3445  ;X4=XM=0.401303;VM=0.415269
DN  =1000  ;X5=XM+WN=XJ=0.630783
DP  =1000  ;
```