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| 數位積體電路  Lab1  智能系統所 312581006 張宸瑋 |
| **Exercise 1-1. DC characteristics** |
| Vgs-IDS of FinFET |
|  |
| Vgs-IDS of CMOS |
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| **Exercise 1-2. Voltage Transfer Curve** |
| 1-2-1 |
| Smallest inverter |
|  |
| Largest inverter |
|  |
| **1-2-2** |
|  |
| 綠色的為FinFETs，黃色的為Planer MOSs |
| 註記:Ex1\_2\_1.sp為第一題之程式，Ex1\_2\_2.sp為第二題之程式 |

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| **1-3. Power consumption** | |
| Planer MOSs inverter | |
| 1GHz |  |
| 2GHz |  |
| 4GHz |  |
| FinFETs inverter | |
| 1GHz |  |
| 2GHz |  |
| 4GHz |  |
| 註記: Ex1\_3\_fin.sp為測量FinFETs inverter power之程式，Ex1\_3\_mos.sp為 Planer MOSs inverter為第二題之程式 | |
| **1-4. Characteristics of NOR2/NAND2** | |
| NAND2 | |
|  | |
| NOR2 | |
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