82.1 xuyang 1014@pku.edu.cn

```
2.1.5
(1)平凡
(7i) P(|X-Y| < E) = 500 P(|X-Y| < E) & P(|Y)

全 €→0. 由绝对连续性、P(IX-81≤€)-致地→0

   得证
```

2.1.6

2.1.7 取052cjEK-1, 05a,b≤K-1

 $X+jY = b \pmod{K}$ 由初等数论知识.不能看出mad 大意义下有唯一解

故不独立 2.1.8

取 X1, X2, X3, X4 Net Symmetric Bernoulli The Y1 = X1 X2, Y2 = X6 X3 Y3 = X3 X4 Y4 = X4 X1

PLAD PLB) = PLAB) ( IAI (BI = 41AB) 于是弧耳人(={[1,23, {2,3}}) A=={(2,43}

其中 {1,2,3} 6 O(A1) 与 (2.4) 不独立

| 2. . | 14 |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|------|----|-------------|-----|--|---|-----------------------|-------|------|------|-------|-----------|----|------|---|--|--|--|--|--|--|--|
|      | PU | <b>(</b> Y< | t)= | : \\ \begin{align*} \( \begin{align*} \text{o} & \\ \delta & \\ \d | too (+00 1 {xy<+} dF(x)dG(y)  **(GG(-G(o-)) dF(x). , 仍定其中 言=+00  **(GG(表) dF(x) , |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             | =   | ;  | GE  | i-G(                  | (0-1) | dFix | s) · | . เจ. | <b>主其</b> | 中告 | = +& | , |  |  |  |  |  |  |  |
|      |    |             | =   | :  | tòo (   | う<br>ほ<br>え<br>し<br>え | ) d   | F(X) |      | ,     |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |
|      |    |             |     |  |   |                       |       |      |      |       |           |    |      |   |  |  |  |  |  |  |  |