大学物理实验导学系统-部分源代码

```
Button["开始运行", SetDirectory[FileNameJoin[{NotebookDirectory[], "Resources"}]];
 CreateWindow[DialogNotebook[Dynamic[Panel[
     Column[{

       Style["大学物理实验导学系统 ", {Blue, 25}], ,

       TabView[{
         (*================================================================================
           ================================================*)
         " 力学热学实验 " → TabView[{

           "刚体转动惯量\n的测量" →
            Grid[{
              {
               Framed[Pane[text`zhuandong, ImageSize → {440, 470},
                 Scrollbars → True, AppearanceElements → None]],
               Column[{Null, Null, Row[{"",  Column[{Button["实验仪器",
                       SystemOpen["刚体转动惯量的测量 _实验仪器.cdf"],
                       ImageSize → {180, 35}], Button["实验原理及内容 ",
                       SystemOpen["刚体转动惯量的测量 _实验原理及内容 .cdf"],
                       ImageSize → {180, 35}],
                      Button["数据采集和处理 ", SystemOpen[
                        "刚体转动惯量的测量 _数据采集和处理 .cdf"], ImageSize →
                        {180, 35}], Button["视频 & 动画", ImageSize → {180, 35}]},
                    Spacings → 1.5], ""}, Spacer[60]], Null, Null}]

              },
              {SpanFromAbove,
               Row[{"", Show[img`zhuandong, ImageSize → 250]}, Spacer[25]]}
             }, Alignment → {{Top, Left}, {Top, Top}}]
            ,
            (*---------------------------------*)
            "引力质量与惯\n性质量的研究" →
             Grid[{
               {
                Framed[Pane[text`yinli, ImageSize → {440, 470},
                  Scrollbars → True, AppearanceElements → None]],
                Column[{Null, Null, Row[{"",  Column[{Button["实验仪器",
                        SystemOpen["引力质量与惯性质量的研究 _实验仪器.cdf"],
                        ImageSize → {180, 35}], Button["实验原理及内容 ",
                        SystemOpen["引力质量与惯性质量的研究 _实验原理及内容 .cdf"],
                        ImageSize → {180, 35}],
                       Button["数据采集和处理 ", SystemOpen[
                         "引力质量与惯性质量的研究 _数据采集和处理 .cdf"], ImageSize →
                         {180, 35}], Button["视频 & 动画", ImageSize → {180, 35}]},
                     Spacings → 1.5], ""}, Spacer[60]], Null, Null}]

               },
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    {SpanFromAbove, Row[{"",
       Show[img`yinli, ImageSize → 250, AspectRatio → 0.8]}, Spacer[25]]}
  }, Alignment → {{Top, Left}, {Top, Top}}]
,
(*----------------------------------*)
"杨氏模量的\n测量" →
 Grid[{
   {
    Framed[Pane[text`yangshi, ImageSize → {440, 470},
      Scrollbars → True, AppearanceElements → None]],
    Column[{Null, Null, Row[{"",  Column[{Button["实验仪器",
           SystemOpen["杨氏模量的测量_实验仪器.cdf"],
           ImageSize → {180, 35}], Button["实验原理及内容", SystemOpen[
            "杨氏模量的测量_实验原理及内容.cdf"], ImageSize → {180, 35}],
          Button["数据采集和处理", SystemOpen[
            "杨氏模量的测量_数据采集和处理.cdf"], ImageSize → {180, 35}],
          Button["视频 & 动画", ImageSize → {180, 35}]},
         Spacings → 1.5], ""}, Spacer[60]], Null, Null}]

   },
   {SpanFromAbove, Row[{"", Show[img`yangshi,
       ImageSize → 250, AspectRatio → 0.8]}, Spacer[25]]}
  }, Alignment → {{Top, Left}, {Top, Top}}],
(*----------------------------------*)
"弦振动的\n研究" →
 Grid[{
   {
    Framed[Pane[text`xianzhen, ImageSize → {440, 470},
      Scrollbars → True, AppearanceElements → None]],
    Column[{Null, Null, Row[{"",  Column[{Button["实验仪器",
           SystemOpen["弦振动的研究_实验仪器.cdf"],
           ImageSize → {180, 35}], Button["实验原理及内容", SystemOpen[
            "弦振动的研究_实验原理及内容.cdf"], ImageSize → {180, 35}],
          Button["数据采集和处理", SystemOpen[
            "弦振动的研究_数据采集和处理.cdf"], ImageSize → {180, 35}],
          Button["视频 & 动画", ImageSize → {180, 35}]},
         Spacings → 1.5], ""}, Spacer[60]], Null, Null}]

   },
   {SpanFromAbove, Row[{"", Show[img`xianzhen,
       ImageSize → 250, AspectRatio → 0.8]}, Spacer[25]]}
  }, Alignment → {{Top, Left}, {Top, Top}}],
(*----------------------------------*)
"气垫导轨上的\n实验二项-1" →
 Grid[{
   {
    Framed[Pane[text`qidian1, ImageSize → {440, 470},
      Scrollbars → True, AppearanceElements → None]],
    Column[{Null, Null, Row[{"",  Column[{Button["实验仪器",
           SystemOpen["气垫导轨上的实验二项-1_实验仪器.cdf"],
           ImageSize → {180, 35}], Button["实验原理及内容",
```

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            SystemOpen["气垫导轨上的实验二项 -1_实验原理及内容 .cdf"],
            ImageSize → {180, 35}],
           Button["数据采集和处理 ", SystemOpen[
             "气垫导轨上的实验二项 -1_数据采集和处理 .cdf"], ImageSize →
             {180, 35}], Button["视频 & 动画", ImageSize → {180, 35}]},
         Spacings → 1.5], ""}, Spacer[60]], Null, Null}]

   },
   {SpanFromAbove, Row[{"", Show[img`qidian1,
       ImageSize → 250, AspectRatio → 0.8]}, Spacer[25]]}
  }, Alignment → {{Top, Left}, {Top, Top}}],
(*----------------------------------*)
"气垫导轨上的\nn实验二项-2" →
 Grid[{
   {
    Framed[Pane[text`qidian2, ImageSize → {440, 470},
      Scrollbars → True, AppearanceElements → None]],
    Column[{Null, Null, Row[{"",  Column[{Button["实验仪器",
            SystemOpen["气垫导轨上的实验二项 -2_实验仪器 .cdf"],
            ImageSize → {180, 35}], Button["实验原理及内容 ",
            SystemOpen["气垫导轨上的实验二项 -2_实验原理及内容 .cdf"],
            ImageSize → {180, 35}],
           Button["数据采集和处理 ", SystemOpen[
             "气垫导轨上的实验二项 -2_数据采集和处理 .cdf"], ImageSize →
             {180, 35}], Button["视频 & 动画", ImageSize → {180, 35}]},
         Spacings → 1.5], ""}, Spacer[60]], Null, Null}]

   },
   {SpanFromAbove, Row[{"", Show[img`qidian2,
       ImageSize → 250, AspectRatio → 0.8]}, Spacer[25]]}
  }, Alignment → {{Top, Left}, {Top, Top}}],
(*----------------------------------*)
"磁阻尼动摩擦\nn系数的测定" →
 Grid[{
   {
    Framed[Pane[text`cizhuni, ImageSize → {440, 470},
      Scrollbars → True, AppearanceElements → None]],
    Column[{Null, Null, Row[{"",  Column[{Button["实验仪器",
            SystemOpen["磁阻尼动摩擦系数的测定 _实验仪器 .cdf"],
            ImageSize → {180, 35}], Button["实验原理及内容 ",
            SystemOpen["磁阻尼动摩擦系数的测定 _实验原理及内容 .cdf"],
            ImageSize → {180, 35}],
           Button["数据采集和处理 ", SystemOpen[
             "磁阻尼动摩擦系数的测定 _数据采集和处理 .cdf"], ImageSize →
             {180, 35}], Button["视频 & 动画", ImageSize → {180, 35}]},
         Spacings → 1.5], ""}, Spacer[60]], Null, Null}]

   },
   {SpanFromAbove, Row[{"", Show[img`cizhuni,
       ImageSize → 250, AspectRatio → 0.8]}, Spacer[25]]}
  }, Alignment → {{Top, Left}, {Top, Top}}],
```

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(*----------------------------------*)
"旋转液体物理\n特性的研究" → Grid[{
   {
    Framed[Pane[text`xuanzhuan, ImageSize → {440, 470},
      Scrollbars → True, AppearanceElements → None]],
    Column[{Null, Null, Row[{"",  Column[{Button["实验仪器",
           SystemOpen["旋转液体物理特性的研究 _实验仪器.cdf"],
           ImageSize → {180, 35}], Button["实验原理及内容",
           SystemOpen["旋转液体物理特性的研究 _实验原理及内容.cdf"],
           ImageSize → {180, 35}],
          Button["数据采集和处理", SystemOpen[
            "旋转液体物理特性的研究 _数据采集和处理.cdf"], ImageSize →
            {180, 35}], Button["视频 & 动画", ImageSize → {180, 35}]},
        Spacings → 1.5], ""}, Spacer[60]], Null, Null}]

   },
   {SpanFromAbove, Row[{"", Show[img`xuanzhuan,
       ImageSize → 250, AspectRatio → 0.8]}, Spacer[25]]}
  }, Alignment → {{Top, Left}, {Top, Top}}],
(*----------------------------------*)
"稳态法测定物\n体的导热系数" →
 Grid[{
   {
    Framed[Pane[text`wentai, ImageSize → {440, 470},
      Scrollbars → True, AppearanceElements → None]],
    Column[{Null, Null, Row[{"",  Column[{Button["实验仪器",
           SystemOpen["稳态法测定物体的导热系数 _实验仪器.cdf"],
           ImageSize → {180, 35}], Button["实验原理及内容",
           SystemOpen["稳态法测定物体的导热系数 _实验原理及内容.cdf"],
           ImageSize → {180, 35}],
          Button["数据采集和处理", SystemOpen[
            "稳态法测定物体的导热系数 _数据采集和处理.cdf"], ImageSize →
            {180, 35}], Button["视频 & 动画", ImageSize → {180, 35}]},
        Spacings → 1.5], ""}, Spacer[60]], Null, Null}]

   },
   {SpanFromAbove,
    Row[{"", Show[img`wentai, ImageSize → 300]}, Spacer[2]]}
  }, Alignment → {{Top, Left}, {Top, Top}}],
(*----------------------------------*)
"其他实验\n " →
 Grid[{
   {Null, Null, Null, Null},
   {Null,
    Column[{
      EventHandler[
       Framed@Show[img`changdu, ImageSize → 200, AspectRatio → 0.8],
       {"MouseClicked" :> (SystemOpen["长度测量.cdf"])}],
      Style["长度的测量", 15]}, Center]

    , Column[{
```

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      EventHandler[Framed@Show[img`midu, ImageSize → 200, AspectRatio →
          0.8], {"MouseClicked" :> (SystemOpen["物质密度的测定 .cdf"])}],
      Style["物质密度的测定 ", 15]}, Center],
    Column[{
      EventHandler[
       Framed@Show[img`kongqi, ImageSize → 200, AspectRatio → 0.8],
       {"MouseClicked" :> (SystemOpen["空气比热容比的测定 .cdf"])}],
      Style["空气比热容比的测定 ", 15]}, Center]},
   {Null,
    Column[{
      EventHandler[
       Framed@Show[img`biaomian, ImageSize → 200, AspectRatio → 0.8],
       {"MouseClicked" :> (SystemOpen["液体表面张力系数的研究 .cdf"])}],
      Style["液体表面张力系数的研究 ", 15]}, Center]

    , Column[{
      EventHandler[
       Framed@Show[img`pengzhuang, ImageSize → 200, AspectRatio → 0.8],
       {"MouseClicked" :> (SystemOpen["碰撞打靶中能量损失的研究 .cdf"])}],
      Style["碰撞打靶中能量损失的研究 ", 15]}, Center],
    Column[{
      EventHandler["", {"MouseClicked" :>
          (SystemOpen["http://www.wulixueyuan.com"])}],
      ""}, Center]}], Spacings → {2, 2}]

  },

  ControlPlacement → Left, ImageSize → {880, 500},
  LabelStyle → {Purple}, Alignment → {Left, Top}
 ],

(*=====================================================================
 ======================================================*)
" 电磁学实验 " → TabView[{

   "制流电路与\n分压电路" →
    Grid[{
      {
       Framed[Pane[text`zhiliu, ImageSize → {440, 470},
         Scrollbars → True, AppearanceElements → None]],
       Column[{Null, Null, Row[{"",  Column[{Button["实验仪器",
              SystemOpen["制流电路与分压电路 _实验仪器.cdf"],
              ImageSize → {180, 35}], Button["实验原理及内容 ",
              SystemOpen["制流电路与分压电路 _实验原理及内容 .cdf"],
              ImageSize → {180, 35}],
             Button["数据采集和处理 ", SystemOpen[
               "制流电路与分压电路 _数据采集和处理 .cdf"], ImageSize →
               {180, 35}], Button["视频 & 动画", ImageSize → {180, 35}]},
            Spacings → 1.5], ""}, Spacer[60]], Null, Null}]

      },
      {SpanFromAbove, Row[{"", Show[img`zhiliu,
```

```
        ImageSize → 250, AspectRatio → 0.8]}, Spacer[25]]}
  }, Alignment → {{Top, Left}, {Top, Top}}]
,
(*----------------------------------*)
"电表改装与\n校准" →
 Grid[{
```